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User's Guide to Selection of Blasting Abrasives

U.S. DEPARTMENT OF THE NAVY
CARDEROCK DIVISION,
NAVAL SURFACE WARFARE CENTER

in cooperation with
Peterson Builders, Inc.

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National Shipbuilding Research Program

Project Number 3-95-7

User's Guide to Selection of Blasting Abrasives

Final Report

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1. Executive Summary

The purpose of this guide for abrasive selection is: through proper abrasive selection shipyards can improve productivity, reduce waste, and decrease the costs associated with abrasive blast cleaning.

Abrasive blasting is generally acknowledged to be the most effective and efficient means of surface preparation. Blasting accounts for about two-thirds of the cost of the surface preparation and coating operation, which is itself, a major cost component of shipyards. The wide variations in types of abrasive, blasting processes and operator proficiency, result in huge fluctuations in the efficiency and cost of the abrasive blasting operation. Therefore, significant reduction in cost and improvement in production can be attained by proper selection and use of abrasives, meeting the objective of this project; to develop a shipyards guide to select abrasive and blasting parameters that will optimize this activity.

The guide allows the user to perform the following analyses:

- **Estimating productivity and consumption rates**

Blasting productivity (sq. ft. per hr.) and abrasive consumption rate (lbs of abrasive per sq. ft., or lbs of abrasive per hr.) are computed for various conditions. These quantities are derived from an 11 step procedure. The user is asked to define the existing surface (i.e., Type and condition of coating or metal) and the end condition (i.e., degree of cleaning and profile) sought. The model computes productivity and consumption rates for 13 abrasives under one of four blasting pressures from between 90 to 125 psi and one of three different nozzle sizes, ranging between sizes 6 and 8. Adjustment to these basic rates can be made for factors such as the accessibility of the area to be cleaned, the elevation and the need for special controls (e.g., of dust). These computations are based on data derived from industry and literature surveys (see discussion below).

- **Estimating costs for specific shipyard blasting activities**

Costs are computed from the following components: shipyard labor (blasting and set up), abrasive materials, and waste disposal. The model computes costs per sq. ft. based on user input for labor factors, type and size of project, type of abrasive, nature of waste (hazardous or non-hazardous), along with other parameters described above, the model computes costs per sq. ft.

- **Benchmarking shipyard blasting operations**

The model also allows the user to compare current shipyard blasting productivity, abrasive consumption rates and costs with this guides industry norms. The user is guided on how to determine actual production and consumption rates for the shipyard for direct comparison with the data from the industry survey.

The guide can be operated in an electronic version or hard copy version. The latter uses a handbook format with data provided in a well-indexed look-up tables.

The databases on productivity and consumption rates were derived from an extensive search of data from published literature, and from experiences of abrasive users and suppliers. These are available in electronic format.

The literature review is described in the second of our interim deliverables, previously submit-

ted to NSRP Program Management. It describes basic characteristics of abrasives, the blasting process, illustrates the principal factors affecting production/consumption and other performance parameters.

Shipyard experience with the use of abrasives is summarized in Section 6.C.

The project also entailed a review and analysis of regulations affecting the use of abrasives and of available standards for abrasives from the government, commercial and international sources. These analyses are referenced in Section 6. A summary of available standards is given in Section 6.D.

2. Introduction

This project provides a "User's Guide to Selection of Blasting Abrasives." The guide can help reduce the overall cost of surface preparation, a critical cost component in shipbuilding. Shown below is the original abstract published by NSRP for this project. Following the abstract is a description of the scope of the project and its key deliverables.

A. Abstract of Project

The following is the abstract for the project.

Title: "User's Guide to Selection of Blasting Abrasives"

Objective: Provide a comprehensive guide to abrasive selection based on qualification, cleaning capability, physical properties, costs, surface quality, productivity, safety and environmental impact.

Background: Surface preparation by abrasive blasting involves a wide variety of cleaning requirements for new construction and ship repair. These range from cleaning of preconstruction primer and light rust to removal of thick coatings, heavy rust and marine growth. The market offers a multitude of choices of one-time use and recyclable abrasives.

In order to execute a credible analysis, several factors must all be taken into account: personal hygiene, environmental impact, waste disposal, material cost, productivity, cleaning effectiveness, coating performance, climatic effects, cleanliness standards (for both new and recyclable) and equipment costs. This study will provide the data, standards and tests upon which decisions can be based.

Technical

Task 1: Identify all types of abrasives available to user for both single use and recyclable (i.e., metallic, mineral, synthetic, by-product, agriculture, etc.) Define characteristics of each. Collect latest standards or specifications for each type.

Task 2: Collect performance data. Identify cost drivers.

Task 3: Outline safety, health, environmental, cleanliness and disposal requirements. Define all associated regulations.

Task 4: Develop test models to stimulate typical shipyard applications.

Task 5: Provide comprehensive cost models to support the abrasive selection process.

Task 6: Produce a standard guidance document for abrasive selection.

Task 7: Write Report

Benefits: Shipyards will have a comprehensive guidance document to abrasive performance, cleanliness and cost.

B. Scope and Key Deliverables

The scope of the project is to provide a comprehensive guide to the selection of abrasives. This guide addresses key factors in abrasive selection such as:

- Cleaning capability;
- Physical properties;
- Costs;
- Surface quality;
- Productivity;
- Safety, and
- Environmental impact.

The seven deliverables were:

- Deliverable 1: A report summarizing the different types of abrasives, industry specifications and consensus standards defining each abrasive type.
- Deliverable 2: A report describing the performance properties of different abrasive types. The report contains productivity and consumption data gathered from both a technical literature review, and surveys of abrasive manufacturers or users.
- Deliverable 3: A report describing the regulatory impact on abrasive selection and use from health, safety and environmental regulations. The report contains information about respiratory effects of different types of abrasive and also addresses waste disposal issues.
- Deliverable 4: This report describes a process for modeling the abrasive productivity and consumption in typical shipyard applications. The data used to create the report is taken from the earlier industry surveys and technical literature sources identified in deliverable 2.
- Deliverable 5: A second modeling exercise assessed costs associated with abrasive use. This model builds on the data contained in deliverable 4 and creates a cost model for surface preparation. Using the model, estimates of the costs for typical surface preparation tasks are made.
- Deliverable 6: The guide to abrasive selection provides a user with a way to make abrasive selections based on their knowledge of the surface preparation task. The productivity and consumption information shown in the guide come from databases created for deliverable 4. Guidance on cost estimating is based on the model database created for deliverable 5.
- Deliverable 7: This report, describing how the project was conducted, and its key deliverables.

C. How Project Can Benefit Shipyards

This project benefits shipyards by helping them control a significant component of the cost of building a vessel. Surface preparation and coating account for at least five percent of the total cost of a vessel, according to the work of Peterson Builders in their report for NSRP.¹ Surface preparation costs alone can account for over two-thirds of the cost of surface preparation and coating.² The efficiency of surface preparation is critically dependent on the method used for cleaning. The most widely used method of surface preparation is abrasive blasting. This is because it is more cost effective than alternative methods, such as High Pressure Water Jetting or power tool cleaning. Optimizing the abrasive blasting process by improving the efficiency of the abrasive blasting process and reducing abrasive consumption can yield significant cost advantages.

1. NSRP Report Number 0302, "The Economics of Shipyard Painting Phase II, Bid Stage Estimating."

2. Good Painting Practice, Volume 1 of the Steel Structures Painting Manual, Chapter 8.0, "Comparative Painting Costs," 3rd Edition, SSPC 1993.

There are many abrasives available to a user. Each abrasive has unique physical and performance characteristics. There are also a variety of surface preparation tasks faced by a shipyard, for new construction and for maintenance activities. Properly matching the abrasive to the task at hand can result in the following:

- Reduced rework of cleaned and coated surfaces;
- Improved production rates;
- Reduced waste disposal costs, and
- Improved cost efficiency.

The guide and database deliverables produced in this project give a user the tools needed to select the best abrasive. Specifically, these tools guide the user to:

- Determine production and consumption rates for a specific choice of abrasive;
- Determine the expected consumption and labor costs of the use of this abrasive, and
- Measure the users process against the expectations for performance suggested by the guide.

The net results to a shipyard are a reduced cost of operations and an enhanced competitiveness.

3. Description of Project Tasks and Deliverables

The primary goal of the project was the delivery of a user's guide to selection of abrasive materials. This user's guide to abrasive selection was the sixth deliverable. The five earlier interim deliverables, in the form of technical reports and electronic databases, provided the materials for creation of the user's guide.

A. Description of Information Searches and Associated Deliverables

There were three deliverables associated with our information search. The first of these was a report which summarized available technical information on abrasive material types, specifications describing abrasives and industry standards for abrasive performance.

The second of these deliverables focussed on abrasive performance and consumption characteristics. It was the result of two information search efforts. One of these efforts was a literature search to elicit information on abrasive consumption, productivity and physical characteristics. The second effort was to acquire information on abrasive consumption and productivity from the marine community, the general painting industry and from abrasive manufacturers.

The third of our information reports summarized the impact of health, safety and environmental regulations on abrasive selection and use.

A.1 Literature Surveys for Industry Standards and Specifications

Part of the first deliverable was a survey to identify industry standards and specifications. This first deliverable also included information on classification of abrasive materials. The information search was conducted through a review of the technical literature and SSPC's technical libraries of consensus specifications and standards. Major sections of the first deliverable dealing with industry specifications and standards are described below.

A.1.1 Standards for Blast Cleaning Abrasives

This section describes commercial, military and international standards and specifications for abrasive materials.

Description of Standards

The most complete, and most recently issued, set of standards for blast cleaning abrasives is that from the International Organization for Standardization (ISO). There are four main ISO standards pertaining to blasting abrasives. Each of these is composed of several parts, each part dealing with a specific abrasive or test method. The pertinent parts of the various ISO standards are condensed into a set of tables in deliverable 1. The ISO requirements for both metallic abrasives and non-metallic abrasives are also tabulated. The ISO abrasive size designations are correlated with the Society of Automotive Engineers (SAE) J444 size designations. Sieve analyses are given for each abrasive size. The SSPC specifications for metallic and non-metallic abrasives are discussed. Efficiencies and cleaning rates from proprietary sources are referenced from SSPC's Steel Structures Painting Manual for selected non-metallic abrasives.

The military specifications MIL-A-21380 and MIL-A-22262(SH) for metallic and mineral abrasives are discussed.

Additional information is given which correlates the metric size designations found in the ISO specifications with the corresponding U.S. units from the SSPC or SAE specifications.

All the specifications and standards contain chemical and composition requirements. Many include performance measures (such as shape retention, hardness or friability). The way these requirements are described differs from one standards setting body to another, this makes it difficult to directly compare one document with another. Performance or composition requirements for all specifications are tabulated to make overcome this difficulty.

Discussion of Abrasive Material Classes

The specifications also contain generic descriptions of abrasive materials. These descriptions are used to form the basis of a classification system shown later on page 21. The hardness, relative toughness, and specific gravity of many non-metallic abrasives are discussed. The common mineral make-up and other distinguishing characteristics of each abrasive are tabulated.

Description of Key Abrasive Characteristics

The relevance and impact of key abrasive characteristics are discussed. Specific topics addressed included:

- Hardness
- Toughness
- Specific Gravity
- Abrasive Sizing, and
- Classification of Mineral Slag Abrasives

A.2 Literature Surveys for Abrasive Productivity and Consumption Data

The literature search for information on abrasive productivity and consumption is reported in our second deliverable on abrasive productivity and performance. The following sources of information were examined:

- SSPC Technical Libraries - These include the complete series of editions of the Journal of Protective Coatings and Linings, Materials Performance, and other technical publications in the field of surface preparation and coating. In addition our technical libraries include a number of conference proceedings from SSPC, NACE and other technical societies such as ASTM. Furthermore our holdings include nearly all of the prominent books and technical reports regarding abrasives, abrasive use, and surface preparation.
- University Library Services - Many of the articles relevant to the subject of abrasive use and abrasive productivity were already available to SSPC through its technical libraries. When articles, reports or books were absent from our technical libraries they were obtained through the library services of the Carnegie Mellon University or the University of Pittsburgh.
- Electronic Information Searches - We performed broad based information retrievals of abstracts for technical articles concerning abrasives, abrasive use, abrasive performance, surface preparation productivity, surface preparation costs and health, safety and environmental impacts of abrasive use in surface preparation. The information on abrasive productivity and consumption rates for different cleaning tasks from these articles was extracted and placed in a spreadsheet database for future use.

A comprehensive literature review based on the retrieved articles has been prepared. This review summarizes the relevant information about abrasive productivity and consumption. It also discusses the importance of abrasive characteristics to abrasive performance. This review contains a comprehensive bibliography.

Over 200 articles relevant to abrasive use and performance are abstracted for review; of these:

- A total of fifty-three articles from JPCL or SSPC conference proceedings are described in an annotated bibliography;
- An additional eighteen technical publications from SSPC or other industry sources are used as reference materials.
- Thirty-seven of these articles or sources are used as primary reference material.

Contents of Report on Abrasive Performance, Productivity and Consumption

The second deliverable consists of 114 pages. It is divided into nine sections. The subject matter covered by each section is as follows:

- Section I provides introductory information and the report structure.
- Section II describes the major categories and types of abrasives used in shipyards and the most commonly used specifications.
- Section III describes the most significant physical, chemical and performance properties.
- Section IV provides an understanding of the interaction between different abrasive properties and the ability to prepare a surface or productively use an abrasive.
- Section V provides documented or reported productivity measurements for the use of typical abrasives under simulated or real operating conditions.
- Section VI presents the results from a survey of US Shipyards on estimates for production rates in typical surface preparation tasks.
- Section VII presents data on productivity and performance based on a survey of manufacturers (sub-section A) and users of abrasive (sub-section B).
- Section IX provides information on the literature sources discussing surface preparation productivity or production rates.

A.3 Industry Surveys for Abrasive Use and Productivity & Consumption Data

To supplement the information on abrasive performance and consumption retrieved from the technical literature is a set of surveys. These surveys target three distinct audiences. The first audience is the marine and shipbuilding industry. Second, is the general painting industry. Third, are the abrasive manufacturers. In each instance we obtain estimates of abrasive productivity and consumption when conducting defined surface preparation tasks. The definition of these tasks include the following parameters:

- The nature of the original surface coating;
- The degree of cleaning to be achieved;
- The desired profile of the specification;
- The pressure at the abrasive blasting nozzle;
- The size (and type) of abrasive blasting nozzle;
- The identity of the abrasive used, and
- The size of the abrasive used.

This information is entered into a second set of databases. The intention is to compare the median productivity and consumption rate estimates with those found in the technical literature. As part of our survey of manufacturers we also include copies of any documents defining the physical properties of commercially available abrasives.

The results of these surveys become a part of our second deliverable (Section VI) describing abrasive performance, productivity, consumption and characteristics.

A.4 Literature Survey for Pertinent Regulations

Environmental, health, and safety regulations play an important role in shaping many engineering processes, such as surface preparation prior to painting. There are several types of impact seen from regulations on surface preparation.

Regulations can impact on the choice and manner of abrasive usage. For instance, if the resultant waste material is hazardous and difficult to dispose of, a reusable abrasive may be chosen, in order to limit waste generation. Similarly safety and health regulations may limit the use of specific abrasives based on the level of silica (a known hazardous material). If emissions are of concern, then a lower dusting abrasive may be chosen, or the entire process altered to restrict emissions (through the use of containment, for instance).

Review of Regulations Impacting Abrasive Use or Selection

This report contains the following sections:

1. Impact of Regulations on Abrasive Choice and Use

The ways in which regulations can affect abrasive choice and use are described. Particular emphasis is placed on recognizing and controlling hazards from free silica, heavy metals, nuisance dusts and other regulated materials found in abrasives, or generated by abrasive blasting. Following this general discussion the most important health, safety and environmental regulations are summarized, focussing on portions of each regulation relevant to surface preparation or abrasive use. The individual standards discussed are described below.

2. Health and Safety Regulations, Standards and Hazards

The OSHA Marine Industry Standards (29 CFR 1915) is discussed with particular focus on the following areas:

- Exposure to heavy metals (cadmium, arsenic, lead);
- Exposure to respirable silica;
- Medical monitoring program requirements;
- Respiratory protection measures, and
- Confined space working requirements.

3. Navy Specification on Abrasive

The restrictions on radioactive materials, heavy metals, arsenic, and chromium found in MIL-A 22262 B(SH) are described.

4. Specific Health and Safety Hazard

The likelihood of exposure to the identified hazards of silica, heavy metals and to nuisance dusts is explored. This is done by reference to the technical literature and related SSPC studies. Guidance is given on selection of abrasives and surface preparation processes which limit worker exposure.

5. Assessment of Environmental Regulations

A review of the impact of each environmental regulation was presented.

The environmental regulations covered included:

- The Resource Conservation and Recovery Act (RCRA);
- The Clean Air Act (CAA) and amendments;
- The Clean Water Act;
- The Comprehensive Environmental Response Compensation and Liability Act (CERCLA), and
- The Federal Insecticide, Fungicide and Rodenticide Act.

6. Relevant Controls on Abrasive Emissions and Disposal from General Industry Practice

General industry practice for control of abrasive emissions and disposal of abrasive wastes is described in this section. Comparison is also given to marine industry practice when known.

7. Survey of State Environmental Regulations

Some states impose more stringent rules than the federal environmental regulations. A survey was made of the states with the largest numbers of known shipyards to determine what added regulations these shipyards work under.

Overall, the most significant impact of the regulations surveyed are in these four areas of abrasive use:

- Paint removal of materials containing hazardous metals (particularly cadmium or lead);
- Waste disposal of materials generated during abrasive blasting;
- Reduction in free silica containing abrasives, and;
- Restrictions in emissions of nuisance airborne dusts during abrasive blasting.

B. Abrasive Performance and Cost Modeling

A key requirement for the user's guide was to facilitate the process of estimating production rates and surface preparation costs. The approach taken to meet this requirement was the development of abrasive performance and cost models. Raw data on abrasive consumption and productivity provided the cornerstone of our models. This information was organized into databases. These databases were then used as the basis for production of an electronic version of our performance and cost models. These electronic products, along with raw data output constitute our fourth and fifth deliverables.

Originally the expectation was that two separate deliverables would be made. The first deliverable was to be a report, database and data used in performance modeling. A subsequent deliverable would cover the cost modeling database in a similar fashion. During the development of the performance modeling database it became clear that both database modeling applications were closely linked to one another. As a result the two databases were combined.

B.1 Abrasive Consumption and Productivity Databases

Our fourth and fifth deliverables include databases which contain abrasive consumption and surface preparation production rate data. The data sources used for these databases were derived from searches of the technical literature along with surveys of U.S. shipyard paint departments and their abrasive suppliers.

A report was prepared which describes the databases and their content. This report provides information on the process used to acquire, categorize, validate and display information on abrasive performance and abrasive blasting costs. Included in the report are the following sections and subsections:

- Goals of Modeling Tasks
- Database Development Activities
 - Acquisition of Data
 - Modification of Acquired Data
 - Structuring of Databases
- Additions to Database Modules
- Goal Attainment in Modeling Task
 - Suggested Models with Examples
- Future Work
- Appendices

- Tables of Working Data from Databases

The goal of these modeling tasks was to assess the impact of different variables on the production and consumption rates for use of abrasives.

The data for the models was acquired under Tasks 1 through 3 of this project.

B.2 Validation of Data

The original source data used in the productivity and consumption databases came from three information searches. Sources used were:

- SSPC literature (publications and reports);
- Technical literature sources, and
- Results of industry surveys.

Discrepancies were found between the reported production and consumption rates in each information source. It was vital to assess the reliability and validity of the different data sources. First, we compared the variables accounted for in each set of data. Then we merged information from the different data sets. Next, any data gaps were filled by mathematical interpolation, this provided a complete production rate and consumption rate databases. These databases were then consolidated. Finally, the consolidated data set was subjected to a controlled review by both abrasive manufacturers and users. Feedback from this review was used to modify numbers in the consolidated data sets. This process eliminated gaps and discrepancies in the production and consumption rate data.

B.2.1 Variables in the SSPC Literature Data Set

The SSPC data largely came from the two volumes of the Steel Structures Painting Manual, Chapters 2.0 through 2.4 of Volume 1, "Good Painting Practice," and Chapter 2 of Volume 2, "Systems and Specifications." The data on abrasive consumption and production rates from these two volumes accounts for the following parameters:

- The type of surface being cleaned is new, millscale bearing, steel.
- The type of mineral abrasive used is one with a density close to 100 lbs/ft³. Metallic abrasives have a bulk density close to 300 lbs/ft³.
- The type of structure cleaned was flat steel plate.
- The production and consumption rate information was obtained under controlled conditions.

The published data in this set only covers a limited range of conditions. It is comparable with a sub-set of data from the other two sources. When comparable conditions from the other two data sets were compared with one another, reasonably close agreement ($\pm 25\%$) was seen in production and consumption rates.

B.2.2 Variables in Technical Literature Data Set

The technical literature data set provided very wide ranges of production and consumption rates. The data covered a much larger combination of variables. Variables accounted for in this data set include:

- Type of surface - the original surface conditions for which data was available fell into four general categories:
 - * Light Rust, Light Millscale or Loose Paint. This is a deteriorated surface which requires little effort to clean.

- * Tight Rust or Tight Millscale. This is new sheet steel plate.
- * Thin Paint or Rusted Thin Paint. This is previously coated steel plate where the coating thickness is no more than 5 mils.
- * Thick Paint, Heavy Millscale or Heavily Pitted Rust. This can be steel plate where the coating thickness is greater than 10 mils.
- Coating hardness - the type of coating hardness fell into three general categories:
- * Hard coating - typically a chemically cured coating such as an epoxy or urethane, or zinc-filled coating.
- * Soft coating - typically a more readily deformed surface such as an alkyd, latex, or chlorinated rubber coating.
- * No coating (new millscale bearing steel).
- Level of cleaning achieved fell into four categories:
- * SSPC-SP 5 "White Metal Blast Cleaning."
- * SSPC-SP 10 "Near White Metal Blast Cleaning."
- * SSPC-SP 6 "Commercial Blast Cleaning."
- * SSPC-SP 7 "Brush-Off Blast Cleaning."
- Profile created could be divided into three categories:
- * Low Profile Range - Between 1.5 and 2.5 mils.
- * Medium Profile Range - Between 2.5 and 4.0 mils
- * High Profile Range - Over 4.0 mils.
- Types of abrasive used fell into the two broad categories of mineral and metallic abrasive. Within the category of mineral abrasives, data was found on ten mineral abrasives. For metallic abrasives, data was found for iron and steel grit, shot, and mixtures of shot and grit.

Most data in the technical literature was obtained under controlled conditions. The pressure at the abrasive blast nozzle, nozzle size, abrasive feed rate and other factors were identified. For some data from the technical literature the conditions of operation were poorly defined. Such poorly defined data from the technical literature was given less weight in our final production and consumption rate databases.

B.2.3 Data from Industry Surveys

Surveys were made of U.S. shipyard painting departments, abrasive manufacturers, and industrial contractors. A common survey instrument was used to obtain production rate and consumption rate data from all parties. The industry surveys attempted to gather data on typical applications, for which performance modeling of abrasives was desired. In the case of shipyards the applications included:

- Preparation of bilges during maintenance;
- Removal of pre-construction primer at weld seams on a new vessel;
- Removal of anti-skid deck coatings;
- Removal of millscale from new plate steel;
- Coating removal from selected non-ferrous surfaces, and
- Other tasks defined by the survey recipient.

The survey recipients were asked to show whether or not the production and consumption rate information was an estimate, or was it obtained under controlled conditions. When producing our production and consumption rate databases, greater weight was given to sources reporting data acquisition under controlled conditions.

When the data did not fit with a pre-defined cleaning task the survey participant was asked to identify the task being performed. This proved useful in categorizing and comparing data from industrial contractors and U.S. shipyards. Typically, industrial contractors reported information for cleaning of complex structural shapes. Shipyards were better able to respond with data fitting one of the pre-defined tasks. Shipyards also provided added task definitions. These new task definitions were incorporated into our final database. Industrial contractor production rates were often lower than those reported by U.S. shipyards. Only when reporting on cleaning of plate and structural steel did the data from industrial and shipyard sources converge.

Data from abrasive manufacturers was used to provide information on abrasive density, size and profile achieved during cleaning.

B.2.4 Merging of Information from Different Data Sets

Having identified the variables in each data set the production and consumption rate information was merged. To achieve a uniform merging of data each data point was tagged with codes representing relevant variables and factors. Data points were tagged to identify the following information:

- Type of surface;
- Coating hardness;
- Level of cleaning achieved;
- Profile created;
- Type and size of abrasive used;
- Operating conditions, (pressure at nozzle and nozzle size);
- Data acquisition parameters (controlled or estimated);
- Source of information (technical literature or survey information);
- Blast cleaning task description, and
- Complexity of surface (flat steel plate or structural steel shapes).

Data from the manufacturer survey was used to add physical characteristics such as size, shape, and density. Task descriptions were divided into twelve categories; see Section B.3, on page 15.

Data was sorted into subsets in which information obtained under identical conditions was directly comparable. The range of values of production or consumption rate within each sub-set was determined. Then the degree of agreement between survey data and technical literature data was determined for sets obtained under controlled conditions. By and large, when survey data obtained under controlled conditions is compared with technical literature data, a reasonably high degree of agreement was seen between the two data sources.

B.2.5 Filling in Gaps in the Data Sets

A performance and consumption rate database model demanded information for cleaning of steel surfaces under a wide variety of conditions. Our review of data sources showed gaps in the recorded information. To help fill in gaps we had to identify relationships between the known data, based on identified variables and then perform an exercise of data interpolation and extrapolation. This exercise used qualified data, such as that from the technical literature, as a benchmark. For instance, data was available which allowed us to assess the influence which the following factors have on abrasive productivity:

- Pressure at the nozzle;
- Nozzle size;

- Abrasive particle median size;
- Coating thickness, and
- Surface/Coating type.

Relationships between production or consumption rates and each of these factors were graphed. These graphs gave mathematical relationships from which production or consumption under other conditions could be calculated.

Production rate data sets were extended by extrapolation to cover conditions of higher nozzle pressure and larger nozzle size. These relationships were non-linear. For instance, production rates may increase 1.5% for each one pound increase in pressure at the nozzle above 100 psi. Thus, an increase in pressure at the nozzle of ten percent (100 psi to 110 psi) can increase production rates by 16%. Gaps in data within a data set were filled by interpolation. Interpolated numbers for production or consumption had to agree with the original relationship identified for the factor being graphed.

Benchmark data on abrasive consumption from the technical literature was dependent on the operating conditions. Consumption is linearly dependent on abrasive bulk density. Filling in gaps in the consumption data for abrasives became a simple computation. Ratios of bulk density were computed between our benchmark abrasives and abrasives with data gaps to develop abrasive consumption information. These ratios were used to extend consumption information beyond the information found from all data sources.

B.2.6 Consolidating Production and Consumption Rate Data

Following the exercise of filling in gaps in the data sets, a revised database was constructed. This database included information for production and consumption rates for thirteen mineral and three reusable abrasives. All original data, and any extrapolated or interpolated data, were included. This resulted in some redundancies in the full data set. To eliminate redundancies we tested the data as follows:

- If the data was acquired under controlled conditions it was retained;
- If the data was estimated, but and within $\pm 25\%$ of our benchmark or literature data, it was retained;
- If the data showed greater than $\pm 25\%$ disagreement with our benchmark data it was tagged as questionable.

Questionable data was partitioned from our database.

Data was sorted into sub-groups once again. Where more than one data point existed for a given set of operating and task conditions this data was averaged. A new database was created which contained production and consumption rate information with only one data point for any abrasive under a specific set of operating and task conditions.

B.2.7 External Review of Consolidated Data Sets

The consolidated data set was extensive. Over 12,000 combinations of abrasive type and operating conditions were represented. An external review of the full database content was not feasible. Instead, a representative sub-set of the consolidated data-set was prepared. This sub-set covered the most common operating conditions used in a shipyard setting (nozzle sizes from #6 through #8, ($3/8$ -inch to $1/2$ -inch diameter,) and pressures at the nozzle from 80 psi to 125 psi). Production and consumption information was given for each combination of pressure at the nozzle and nozzle size. This information was given for a minimum of five abrasive materials. The

abrasive materials were randomized among recipients of this data validation survey. (Abrasive manufacturers always received a copy of data relevant to their product line.) Recipients were asked to comment on whether the data was within $\pm 25\%$ of the expected value. If the data was within this range then no further modification was given to the data. If the data was outside of acceptable range then the recipient was asked to provide data, obtained under controlled conditions, to change the affected data points.

Values in the database were changed as needed based on the results of this validation survey. This revised version of the database constituted our final version and was used throughout the rest of the project.

B.3 Description of Abrasive Costs Database and Model

The earlier survey on production and consumption rates provided basic data needed to estimate surface preparation costs for twelve shipyard surface preparation tasks. The tasks with production rate and consumption information were:

- Cleaning of New Steel Plate or Steel Shapes - Task A
- Removal of Pre-Construction Primer - Task B
- Refurbishment or Recoating of Anti-Fouling Coatings - Task C
- Total Removal of Anti-Fouling and Anti-Corrosive Hull Coatings - Task D
- Removal or Refurbishment of Existing Deck Coatings - Task E
- Removal or Refurbishment of Coatings from Interior Spaces - Task F
- Removal or Refurbishment of Coatings from Superstructure - Task G
- Removal or Refurbishment of Existing Bilge or Ballast Coatings - Task H
- Cleaning of Machinery Housings - Task I
- Cleaning of Non-ferrous Surfaces (Aluminum, Zinc) - Task J
- Weld Seam Preparation - Task K

Baseline production rate information did not reflect level of difficulty caused by location, or through the use of an alternative surface preparation method.

It was recognized that the degree of difficulty of a surface preparation task plays a role in determining overall efficiency and cost. From the data reported by U.S. shipyards on production and consumption rates for individual tasks, we were able to develop factors that estimated maximum production rates for challenging tasks. These factors account for difficulties caused by the type of structure being prepared, its position and the height of the area in or on the vessel.

The actual method of removal also determines overall efficiency. Multiplication factors were developed to represent the efficiency of an alternative surface preparation process. Such alternative approaches to surface preparation find use when meeting regulatory restrictions.

Examples of the process rate modification factors developed are shown in the Table 1 on page 16.

Examples of the location rate modification factors are shown in Table 2 on page 16

Table 1: Production Rate Modifiers when Meeting Environmental Regulatory Constraints

| Engineering Control | Production Rate Modifier | Abrasive Selection Impact | Other Comments |
|--|--------------------------|------------------------------------|--|
| Open Air Abrasive Blasting (standard) | 1.0 | Typically mineral abrasives chosen | Default method |
| Wet Abrasive Blasting | 0.75 | Cannot use metallic abrasives | Clean up needed, flash rusting likely |
| Low Volume Water Slurry Blasting | 0.85 | Cannot use metallic abrasives | Lower clean-up than wet abrasive blasting, flash rusting limited |
| Vacuum Blasting | 0.1 - 0.2 | Recyclable abrasives preferred | Equipment heavy, production rate falls off with time |
| Ultra High Pressure Water Jetting (>25,000 psi) | 0.25 | Abrasive injection rare | No profile production |
| Vacuum Assisted Power Tool Cleaning (SSPC-SP 11) | 0.15 | Media described in specification. | Limited range of profile, productivity falls off with time. |
| Recycling with Containment | 0.6 | Recyclable abrasives preferred. | Modifier reflects moving and placing containment |

Table 2: Production Rate Modifiers Based on Work Location

| Location | Production Modifier |
|---|---------------------|
| Hull Section - Easily Reached | 1 |
| Complex Steel Shape - Less than 25ft Elevation | 0.75 |
| Hull Section - 26-75 Feet High | 0.75 |
| Complex Steel 26-75 Feet High | 0.75 |
| Hull Section 76-150 Feet High | 0.50 |
| Complex Steel 76-150 Feet High | 0.50 |
| Interior Tank Space - Little Structural Steel | 0.50 |
| Interior Tank Space - Complex Structural Shapes | 0.25 |

Together, the two sets of location and process modifiers are used to revise production rates for

a defined task and process combination. This revised production rate also affects overall abrasive consumption.

B.4 Final Version of Abrasive Performance and Cost Models

Following revision of the raw data as described in paragraph B.2 on page 11 a final version of the performance and cost models was developed. This included both the production and consumption rate databases, tied to a database module which computed costs based on factors described in paragraph B.3 on page 15. A simple point and click user interface was provided for user input and presentation of modeling results. This interface along with the other database modules comprise a custom application. To model costs using the cost module of the database application requires user input of cost data for labor rates, equipment operating costs, waste disposal costs, and all task information.

This final version of the abrasive performance and cost model database was delivered as an attachment to the written "User's Guide to Abrasive Selection," described below.

C. Description of the User's Guide to Abrasive Selection

The guide provides information on the selection of abrasives based on:

- Task Descriptions;
- Cleaning Capability;
- Physical Properties;
- Costs;
- Surface Quality Requirements;
- Productivity in Use
- Safety, and;
- Environmental Impact.

Abrasive blasting may be used for a wide variety of surface preparation tasks during new construction and ship repair. These range from cleaning of preconstruction primer and light rust to removal of thick coatings, heavy rust and marine growth. The market offers a multitude of abrasives from which a user can choose. Some abrasives are used only once, others are recycled. Some abrasives are general purpose while others have more specialized applications.

To choose a suitable abrasive, a user must analyze surface preparation task requirements and match those to the production characteristics of available abrasives. Production characteristics include abrasive productivity, cleaning effectiveness, and cleanliness standards, for both new and recyclable materials. Climactic effects may control the way an abrasive is handled or used. Cost is always an important issue. Costs include the abrasive material, surface preparation equipment and waste disposal. Finally, there is the influence of health and safety, and environmental regulations on the choice or use of an abrasive. Such regulations may lead to different choices of abrasive or surface preparation method. These choices affect the cost for a surface preparation task. This guide simplifies choosing an abrasive. Information about a chosen abrasive reflects available data, industry standards and abrasive test methods. Users can figure out costs for a surface preparation task using the cost model included in the guide.

C.1 Versions of The Guide

The written guide is a text version of the database application containing the productivity and cost databases. All the data on productivity and abrasive consumption contained in this guide come from the database. The guide can be used separately from the database application, or it can

be used in conjunction with the database.

C.2 Contents of the Guide

1. Introduction

This section of the guide provides a description of the major sections in the guide.

2. Using Guide for Estimating Abrasive Production and Consumption Rates

This section of the guide describes how to estimate production rates (sq ft/hr) and consumption rates (lbs/sq ft) for various abrasives. This is done by defining different surface conditions, operating parameters and other factors in an 11 step process: The steps taken are shown in Figure 1 on page 19, along with specific choices at each step.

- Step 1 Describe The Surface to be Cleaned. -- Note choice as code number
- Step 2 Determine Coating Hardness.. -- Note choice as code number
- Step 3 Choose Cleaning Grade. -- Note choice as code number
- Step 4 Choose Profile Range. -- Note choice as code number
- Step 5 Choose Table with Code Carried Over. (Code number generated by choices made in Steps 1 through 4.)
- Step 6 Determine Productivity at Expected Operating Conditions.
- Step 7 Compare With Other Disposable Abrasives?
- Step 8 Consider Using Recycled Abrasives?
- Step 9 If Needed, Identify Alternative Method for Control of Dust Emissions
- Step 10 Describe Impact of Work Location and Elevation.
- Step 11 Estimate Total Waste Production.

Based on this information a user can:

- Estimate consumption and production rates, for one or more abrasives based on defined conditions using literature data. Data tables are provided for all conditions defined in the guide.
- Compare 2 or more abrasives for above parameters.
- Determine one or more properties of one or more abrasives (e.g., consumption rate, production rate) for specific application.

Figure: 1 Flow Chart for Abrasive Selection

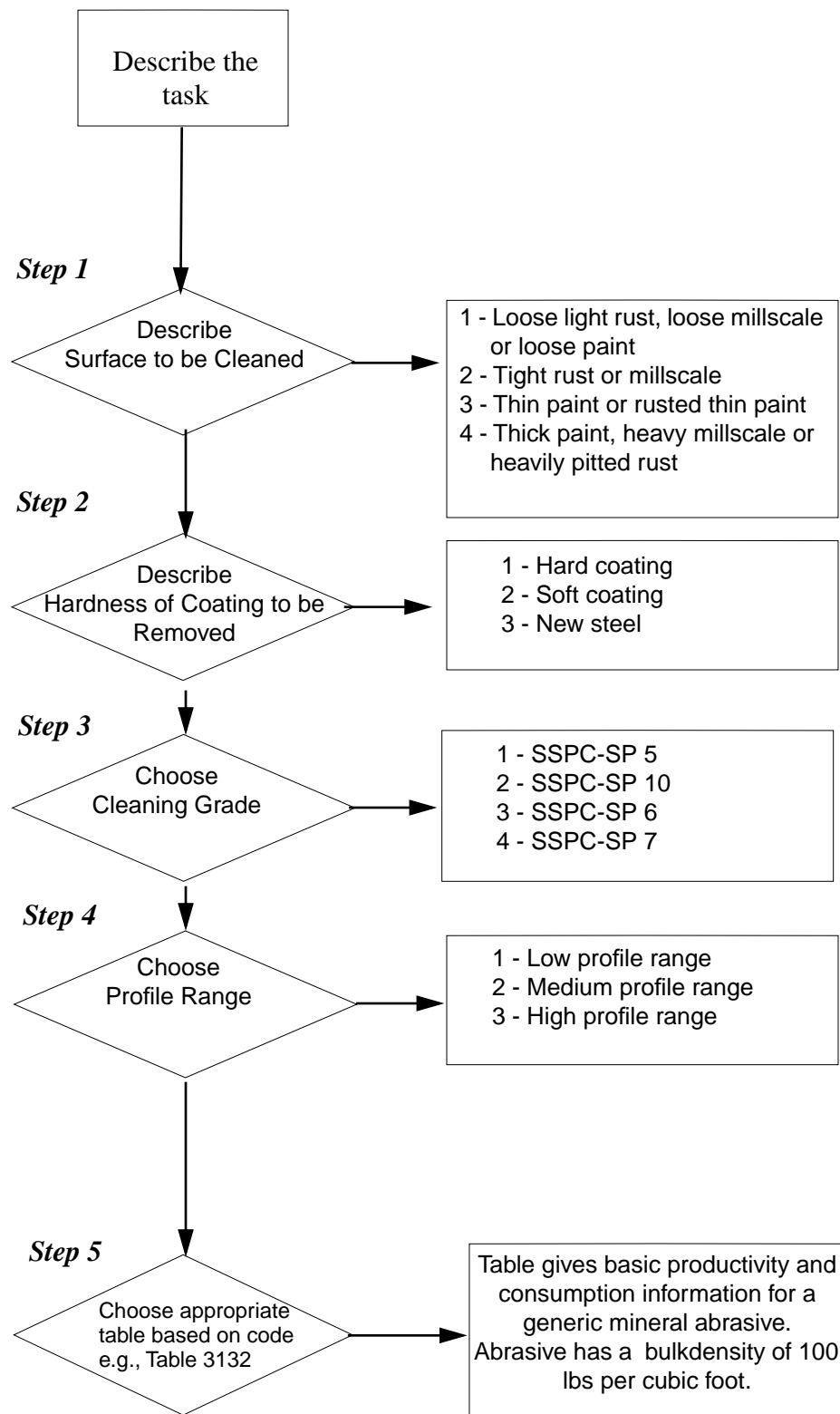
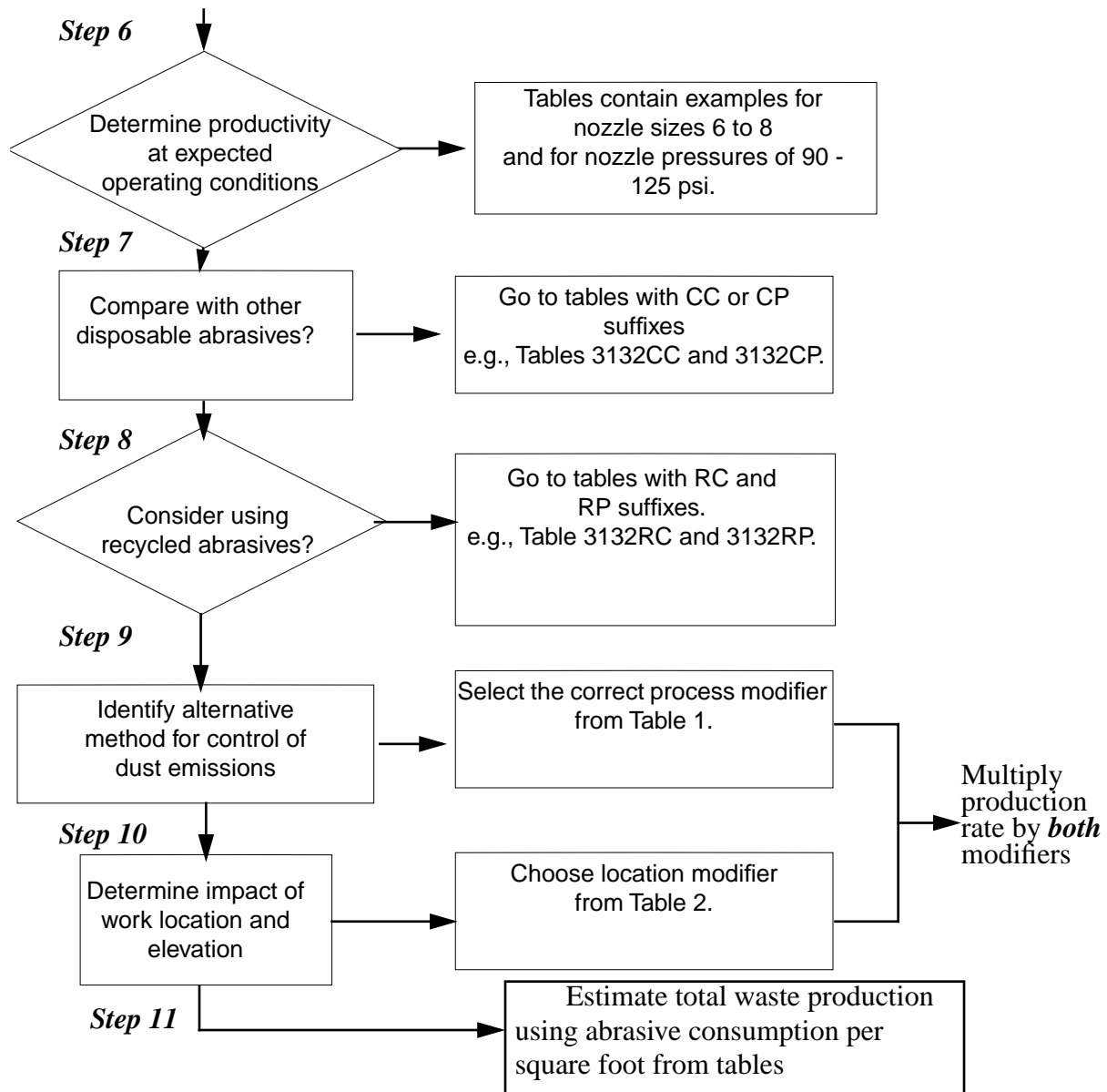


Figure: 1 Flow Chart for Abrasive Selection (Continued)



3. Using Guide to Estimate Costs for a Specific Task

This section contains a brief description of how to take the production and consumption rate information from Section 2 and use this to develop costing for individual surface preparation tasks.

4. Comparing Productivity and Consumption Data with Shipyard Data

One use of the information in the guide and its data tables is to benchmark a surface preparation process. This section provides information on how a shipyard should approach production and consumption rate data gathering. Guidance is also given on measures to take to optimize the surface preparation process.

5. Overview of Abrasives Used at Shipyards

This section describes why abrasives are used in a shipyard setting, the types of tasks requiring abrasives and how abrasives are bought and used.

The types of abrasives covered in the guide include the following types:

- Type I Metallic Abrasive - Sub-Divided into Grit and Shot
- Type II Mineral Abrasives
- Type III Recyclable Mineral Abrasives
- Type IV Organic Media
- Type V Plastic pellets
- Type VI Sponge encapsulated abrasive
- Type VII Sodium bicarbonate slurry
- Type VIII Carbon dioxide pellets

Typical tasks requiring surface preparation or surface treatment covered by the guide include:

- Cleaning of New Steel Plate or Steel Shapes - Task A
- Removal of Pre-Construction Primer - Task B
- Refurbishment or Recoating of Anti-Fouling Coatings - Task C
- Total Removal of Anti-Fouling and Anti-Corrosive Hull Coatings - Task D
- Removal or Refurbishment of Existing Deck Coatings - Task E
- Removal or Refurbishment of Coatings from Interior Spaces - Task F
- Removal or Refurbishment of Coatings from Superstructure - Task G
- Removal or Refurbishment of Existing Bilge or Ballast Coatings - Task H
- Cleaning of Machinery Housings - Task I
- Cleaning of Non-ferrous Surfaces (Aluminum, Zinc) - Task J
- Weld Seam Preparation - Task K
- Degreasing or Oil Removal - Task L

Other influences on abrasive selection include need to reduce waste material volume, to limit the emission of airborne dusts, or to minimize exposure to silica or trace metals from the abrasive. The guide provides tabulated combinations of tasks and suggested abrasive (or alternative surface preparation processes if this is appropriate). Suggested alternate processes include:

- AP I - Portable rotary wheel blasting.
- AP II - High pressure water jetting.
- AP III - Power tool cleaning, without vacuum recovery of dust.
- AP IV - Power tool cleaning, with vacuum recovery of dust.
- AP V - Vacuum abrasive blasting.
- AP VI - Wet abrasive blasting.

These choices suggested by the guide document are shown in Table 3 on page 22.

Table 3: Combination of Tasks and Abrasive or Process Choices

| Task Description | Commonly Used Abrasive | Alternative Choice | Choice Based on Waste Reduction | Choice Based on Dust Control |
|---|--------------------------------|---------------------------|--|-------------------------------------|
| Cleaning of New Steel Plate or Steel Shapes - Task A | Type I | Type II | Type I or Type III | AP VI |
| Removal of Pre-Construction Primer - Task B | Type I or Type II | AP II or Type II | Type I or Type III | AP II |
| Refurbishment or Recoating of Anti-Fouling Coatings - Task C | Type II | Type IV | Type III or AP II | AP II |
| Total Removal of Anti-Fouling and Anti-Corrosive Hull Coatings - Task D | Type II | Type I | Type I, Type III, AP II, or AP VI | AP II |
| Removal or Refurbishment of Existing Deck Coatings - Task E | AP I (Type I Abrasives) | Type I | AP I | AP I |
| Removal or Refurbishment of Coatings from Interior Spaces - Task F | AP III | AP IV or AP V | AP IV, APV | AP III |
| Removal or Refurbishment of Coatings from Superstructure - Task G | Type II | Type I | Type I or Type III | AP VI |
| Removal or Refurbishment of Existing Bilge or Ballast Coatings - Task H | Type II | Type I | AP II, Type I | AP V |
| Cleaning of Machinery Housings - Task I | AP III | Type VI or VII | Type VI, AP IV or AP V | AP III |
| Cleaning of Non-ferrous Surfaces (Aluminum, Zinc) - Task J | Type II (Aluminum Oxide) | Type V | Type VII | AP II |
| Weld Seam Preparation - Task K | Type II | AP III or IV | AP V | AP V |
| Degreasing or Oil Removal - Task L | None - SSPC-SP 1 Cleaning Used | Type VI or Type VII | Type VI or Type VII | Type VII |

6. Other Factors Affecting Abrasive Selection and Use

This section of the guide provides information about the influence of factors such as abrasive type, regulations and specifications on abrasive choice and procurement. Information is also given on how production and consumption rates are influenced by key variables in the database models. The variables covered include:

- Effect of changing the nozzle size and the pressure at the nozzle;
- Effect of changing the abrasive;
- Effect of changing the profile requirements, and
- Effect of changing the degree of cleaning.

The remainder of the guide consists of a series of appendixes described in brief below.

C.3 Appendixes

Appendix 1. Major Factors Affecting Abrasive Selection and Costs

This appendix describes the major factors affecting abrasive selection.

Appendix 2. Relationships and Trade-offs in Abrasive Selections

This appendix provides information similar to that provided earlier in Section 2, but in greater detail.

Appendix 3. Factors Affecting Abrasive Blast Cleaning at Shipyards

Information is given on the role that abrasive type, size, or use can have on production and consumption rates. Also, guidance is given on the merits of alternatives to abrasive blast cleaning.

Appendix 4. Factors Limiting the Selection of Abrasives

These factors include the production rate of the coating process, health, safety and environmental issues, and the cost of the abrasive material itself.

Appendix 5. Equations for Use in Cost Modeling

This appendix presents a fully worked example of how to estimate surface preparation costs is also included.

Appendix 6. Regulatory Factors Affecting Abrasive Selection & Use

This appendix provides background information on regulatory factors affecting abrasive selection and use, such as environmental impact and health and safety considerations during abrasives use.

Tables of Abrasive Productivity & Consumption

The data tables are used in conjunction with the text guide are provided in a separate volume.

4. Economic Benefit to Shipyards

Significant savings can be realized through the efficient use of abrasive blasting. The User's Guide along with the Performance and Cost Models assist a shipyard in performing abrasive blasting efficiently. Both of the SSPC and NSRP studies referenced in footnotes 1 and 2 on page 4 of this report describe how inefficient blast cleaning can increase surface preparation costs by up to 40%. The model described below will help shipyards determine how their operation compares to industry standards, and identify the means to improve their blast cleaning efficiency. It also provides a benchmark for evaluating process improvement efforts.

A comprehensive cost model has been developed which can be used as an adjunct to the guide. Through the use of this cost model one can estimate the impact of changing abrasive blasting operating conditions, such as pressure at the nozzle and nozzle size, on the cost of surface preparation. The cost model also allows the user to compare the use of different abrasives under related operating and process conditions.

A user of the guide can perform cost estimating for surface preparation tasks in one of two ways.

First, as an outline of all the cost components which the user should include in the cost estimate. Illustration of this step by step process is given in the rest of this section.

Second, as a cost modeling database that leads the user through the process of entering all the information needed to estimate the cost of the surface preparation task. All calculations are done by the cost modeling database application without additional user intervention.

Significant cost differences become apparent on changing assumptions which go into a model. Two examples showing significant cost differences are illustrated below in Section C. on page 25. The model depends on over twenty equations. The examples shown in Section C. illustrate typical inputs for cost modeling and the type of final result obtained. The equations for cost modeling are given in Appendix 5 to the Users Guide.

A. Information Needed for Cost Modeling

- Area to be blast cleaned in square feet, (A).
- Average number of hours per shift spent setting up equipment and staging for a work area (H1).
- Length of each shift (H2).
- Number of people per shift performing blast cleaning, (N1).
- Number of people per shift tending blast cleaning equipment, (N2).
- Number of shifts in each work-day (N3).
- Cost of the abrasive (typically in dollars per ton), (M1).
- Cost of labor (labor rates, including all taxes and overheads - \$/hr,) (M2)¹
- Cost of (\$/hr) equipment operation, (M3)
- Cost of (\$/hr) consumable equipment, (nozzles, hoses etc.), (M4)
- Waste disposal cost (\$/Ton) (if a waste is hazardous also include the cost (\$/Ton) of waste treatment prior to disposal), (M5)

1. Note that this assumes a constant labor rate for blasters and support personnel.

B. Quantities Computed By The Cost Model

The model computes the following quantities:

- (H3) -- Maximum hours available for surface preparation.
- (N4) -- Number of shifts used to complete a task.
- (N5) -- Total number of expended labor hours.
- (N6) -- Total number of hours of equipment operation.
- (M6) -- Total labor cost for surface preparation.
- (M7) -- Total cost of equipment operation.
- (N8) -- Number of tons of abrasive used.
- (M8) -- Total cost of abrasive used.
- (M9) -- Total costs for consumable equipment.
- (M10) -- Total costs for waste disposal.

The details of the computations are given in Appendix 5 to the Users Guide.

C. Cost Model Use Examples

The following examples illustrate the cost estimating process for a job in which there is only one eight hour shift per day. Set-up and close-down takes 1.5 hours of the shift. Under C.1 the job is estimated based on a single use abrasive. Under C.2 the job is estimated based on the use of abrasive recycling.

C.1 Single Use Abrasive Costs

The values used for the various factors are:

- (A) -- Size of area to be blasted in square feet, 50,000 ft²
- (H1) -- Average number of hours spent setting up equipment and staging for a work area per shift, 1.5 hours.
- (H2) -- Length of each shift, eight hours per shift.
- (N1) -- Number of people performing blasting in each shift, 2 blasters per shift.
- (N2) -- Number of people tending blasting equipment, one tender per shift.
- (N3) -- Number of shifts in each work-day, one shift per day.
- (M1) -- Abrasive cost (typically in dollars per ton), \$100 per ton.
- (M2) -- Labor cost (fully burdened labor rates - \$/hr), \$40 per hour.
- (M3) -- Equipment operation cost (\$/hr), \$45 per hour.
- (M4) -- Consumable equipment cost, nozzles, hoses etc. - \$/hr), \$3.00 per hour.
- (M5) -- Waste disposal cost - \$/ton), (M5), \$30 per ton.
- In this example, the productivity estimate (P) is 250 ft² per hour and the estimated consumption rate (C) is 2,000 lbs/hr.

Using the equations shown in Appendix 5 of the Users Guide, the following costs are computed:

- M6 (Total labor cost of surface preparation) = \$15,360;
- M7 (Total cost of equipment operation) = \$5,760;
- M8 (Total cost of abrasive used) = \$20,000;
- M9 (Total costs for consumable equipment) = \$600, and
- M10 (Total costs for waste disposal) = \$6,000.

Thus, using equation 12 from Appendix 5 of the Users Guide, our cost in dollars for this surface preparation task is:

$$M11(\text{TotalCostofSurfacePreparation}) = M6 + M7 + M8 + M9 + M10 = \$ 47,720 \quad (1)$$

Our cost per square foot for this task is obtained by dividing the total cost (M11) by the area cleaned (A).

$$\text{CostperSquareFootofCleaning} = \frac{M11}{A} = \frac{\$ 47,720}{\$ 50,000} = \$ 0.951/(\text{ft})^2 \quad (2)$$

This gives a cost per square foot of \$0.95.

C.2 Recycled Metallic Abrasive Cost

The values used for the various factors are:

- (A) -- Size of area to be blasted in square feet, 50,000 ft²
- (H1) -- Average number of hours spent setting up equipment and staging for a work area per shift, 1.5 hours.
- (H2) -- Length of each shift, eight hours per shift.
- (N1) -- Number of people performing blasting in each shift, 2 blasters per shift.
- (N2) -- Number of people tending blasting equipment, one tender per shift.
- (N3) -- Number of shifts in each work-day, one shift per day.
- (M1) -- Abrasive cost (typically in dollars per ton), \$500 per ton.
- (M2) -- Labor cost (fully burdened labor rates - \$/hr), \$40 per hour.
- (M3) -- Equipment operation cost (\$/hr), \$50 per hour.
- (M4) -- Consumable equipment cost, nozzles, hoses etc. - \$/hr), \$3.00 per hour.
- (M5) -- Waste disposal cost (\$/ton), (M5), \$30 per ton.
- The productivity estimate (P) is 190 ft² per hour and the estimated consumption rate (C) is 30 lbs/hr, (remember this is a recycled metallic abrasive, use rates are far lower when recycling is taken into consideration).

Using the equations shown in Appendix 5 of the User's Guide, the following costs are computed:

- M6 (Total labor cost of surface preparation) = \$15,360;
- M7 (Total cost of equipment operation) = \$6,400;
- M8 (Total cost of abrasive used) = \$1,975;
- M9 (Total costs for consumable equipment) = \$790, and
- M10 (Total costs for waste disposal) = \$118.

Thus, using equation 12 from Appendix 5 of the users guide, our cost in dollars for this surface preparation task is:

$$M11(\text{TotalCostofSurfacePreparation}) = M6 + M7 + M8 + M9 + M10 = \$ 24,643 \quad (3)$$

As before the cost per square foot for this task is obtained by dividing the total cost (M11) by the area cleaned (A).

$$\text{CostperSquareFootofCleaning} = \frac{M11}{A} = \frac{\$ 24,643}{\$ 50,000} = \$ 0.48/(\text{ft})^2 \quad (4)$$

This is roughly equal to a cost of \$0.48 per square foot.

5. Conclusions & Recommendations

The user's guide to selection of abrasives provides significant benefits for shipyard painting departments. The document, along with the database application, delivers a coherent set of production and consumption rate information for a large number of abrasive materials.

The data found in the guide can serve three useful purposes:

1. Determining productivity and consumption rates for various abrasives and conditions;
2. Estimating the cost of a surface preparation task, and;
3. Process improvement exercises by shipyard paint departments.

Implementation of results from report

The following procedure is suggested for a shipyard seeking to benefit from the users guide.

The first application is to run the 11 step model to determine expected productivity and consumption rates based on the types of surface conditions, the specified end conditions, the types of abrasives used, the nozzle size and pressure, and the factors requiring adjustment. As part of this initial exercise the yard can determine if the operating parameters (nozzle size and pressure) are appropriate for the task being undertaken. The yard may also be able to determine if there is prospect for improving the operation by selecting an alternate abrasive for certain shipyard tasks.

A second use of the guide is to estimate the abrasive blast cleaning costs using the model's cost estimating features. These can be compared with the yards' own cost of surface preparation. This exercise will require the yard to examine the blast cleaning process to determine factors such as the typical time for set up, and to consider the other advantages of altering the operating parameters.

In order for the yard to achieve significant improvement, it is important to determine the existing production and consumption rates, based on procedures outlined in the guide. These can be compared to industry norms and also can be used as benchmarks for improving the operations.

Suggested Follow-up Activities

The user's guide does not address the training of workers to use abrasives efficiently. This type of guidance goes beyond the scope of the user's guide. It is strongly suggested that either SNAME SP3, or the panel responsible for training programs within SNAME, address this issue in a follow-up to this project.

6. Supplementary Materials and Their Availability

This section identifies the project deliverables. Also, summaries are given of shipyard surveys and abrasive material specifications.

A. User's Guide to Selection of Abrasives

The User's Guide is the primary work product of the project. It is distributed by the NSRP.

B. Complete Listing of Project Deliverables

The seven deliverables are:

- Deliverable 1: A report summarizing the different types of abrasives, industry specifications and consensus standards defining each abrasive type. A review of abrasive specifications is given in Section D, below.
- Deliverable 2: A report describing the performance properties of different abrasive types. The report contains productivity and consumption data gathered from both a technical literature review, and surveys of abrasive manufacturers and shipyards. A summary of shipyard surveys is given in Section C, below.
- Deliverable 3: A report describing the regulatory impact on abrasive selection and use from health, safety and environmental regulations. The report contains information about respiratory effects of different types of abrasive and also addresses waste disposal issues.
- Deliverable 4: This report describes a process for modeling the abrasive productivity and consumption in typical shipyard applications. The data used to create the report is taken from the earlier industry surveys and technical literature sources identified in deliverable 2.
- Deliverable 5: This report describes a second modeling exercise in which costs associated with abrasive use are assessed. This builds on the data contained in deliverable 4 and creates a cost model for surface preparation. Using the model, estimates of the costs for typical surface preparation tasks are made.
- Deliverable 6: This guide to abrasive selection provides a user with a way to make abrasive selections based on their knowledge of the surface preparation task. The productivity and consumption information shown with the guide come from databases created for deliverables 4. Guidance on cost estimating is based on the model database created for deliverable 5.
- Deliverable 7: This report describes how the project was conducted and its key deliverables.

C. Data from Shipyard Surveys

Four shipyards responded to the survey of abrasive use. The survey asked for the abrasives used in surface preparation of various parts of the ship for both a total repaint and a partial repaint. Abrasive types were divided into metallic and non-metallic. Another question asked was whether the abrasive was recovered continuously or whether it was recovered after the blast. The results of this survey are tabulated for each shipyard, (Tables 4 - 7).

The responding shipyards are labelled as Shipyards A through D. The general location of these yards is as follows:

- Shipyard A is a gulf coast shipyard located in Louisiana;
- Shipyard B is located in the north-east United States;
- Shipyard C is located in Virginia;
- Shipyard D is located near the Great Lakes in Michigan.

To simplify shipyard responses and facilitate comparison of data the survey asked that answers conform to the following definitions:

Painting Task to be Performed

- Complete Repaint - Total removal of all coatings down to bare metal.
- Partial Repaint - Removal of loose paint and loose rust, (such as refurbishment of hull anti-foulant coatings).

Surface Preparation Process

- Non-metallic Continuous Recovery - Abrasive blast cleaning with mineral or organic abrasives. The process is accompanied by continuous recovery of abrasive grit for recycling and reuse.
- Non-metallic Post-blast Recovery - Abrasive blast cleaning with recovery of mineral or organic blast media at the end of a blast cleaning session for final disposal.
- Metallic Continuous Recycling - Abrasive blast cleaning with metallic abrasives with continuous recovery and reuse of material, (such as cleaning of plate steel or metal parts in a blast room).

Only shipyard A (Table 4) uses a different abrasive for a complete repaint than for a partial repaint. For complete repaint, steel shot with continuous recovery is the method of choice. However, for the partial repaint, the non-metallic abrasives, staurolite or coal slag, are used and are recovered after the blast for disposal. The same abrasive is used on all parts of the ship except for aluminum surfaces, which are chemically cleaned.

Shipyard B (Table 5) is the only one of the four shipyards that uses recyclable non-metallic abrasives. Garnet and/or aluminum oxide abrasives are used on underwater hull/ boottop, exterior topside, superstructures, and aluminum surfaces. Steel shot is used on decks and steel grit is used on tanks and interior surfaces.

Shipyard C (Table 6) uses garnet or coal slag with post-blast recovery on almost every part of the ship. Sometimes continuously recycled steel shot is used on the non-skid decks. Aluminum surfaces are cleaned with aluminum oxide or high pressure water jetting (HPWJ). Shipyard C also uses baking soda as the abrasive or HPWJ in specialized areas (such as steel motor housings).

Except for cleaning fuel tanks with HPWJ, Shipyard D (Table 7) cleans every part of the ship with coal slag. Whether the job is a full or partial repaint, the surface is blasted with coal slag, which is then recovered after the blast and discarded. There is no re-use of abrasive. Shipyard D did not indicate their preferred method for cleaning aluminum surfaces.

Note: Tables 1 through 3 are located in Section 3: Description of Project Tasks and Deliverables, beginning on page 6.

Table 4: Survey of Abrasive Practice at Shipyard A

| | COMPLETE REPAINT ^a | | | PARTIAL REPAINT ^b | | |
|---|---|---|--|----------------------------------|----------------------------------|-------------------------------|
| | Non-Metallic Continuous Recovery ^c | Non-Metallic Post-blast Recovery ^d | Metallic Continuous Recycling ^e | Non-Metallic Continuous Recovery | Non-Metallic Post-blast Recovery | Metallic Continuous Recycling |
| Underwater Hull/Boottop (with organotin AF paint) | | | steel grit | | staurolite coal slag | |
| Underwater Hull/Boottop (with organotin-free paint) | | | steel grit | | staurolite coal slag | |
| Exterior Topside | | | steel grit | | staurolite coal slag | |
| Decks Non-Skid | | | steel grit | | staurolite coal slag | |
| Decks Other Coatings | | | steel grit | | staurolite coal slag | |
| Superstructures | | | steel grit | | staurolite coal slag | |
| Ballast or Bilge Tanks | | | steel grit | | staurolite coal slag | |
| Fuel Tanks | | | steel grit | | staurolite coal slag | |
| Interior Hulls | | | steel grit | | staurolite coal slag | |
| Potable Water Tanks | | | steel grit | | staurolite coal slag | |
| FRP Domes and Other Composite Surfaces | | | steel grit | | staurolite coal slag | |
| Aluminum Entrances and Other Surfaces ^f | | | | | | |
| Miscellaneous Surfaces and Substrates | | | steel grit | | staurolite coal slag | |

- Complete Repaint - Total removal of all coatings down to bare metal.
- Partial Repaint - Removal of loose paint and loose rust, (such as refurbishment of hull anti-foulant coatings).
- Abrasive blast cleaning with mineral or organic abrasives. The process is accompanied by continuous recovery of abrasive grit for recycling and reuse.
- Abrasive blast cleaning with recovery of mineral or organic blast media at the end of a blast cleaning session for final disposal.
- Abrasive blast cleaning with metallic abrasives with continuous recovery and reuse of material, (such as cleaning of plate steel or metal parts in a blast room).
- Chemical cleaning and paint removal are used on aluminum surfaces for both complete and partial repaint.

Table 5: Survey of Abrasive Practice at Shipyard B

| | COMPLETE REPAINT | | | PARTIAL REPAINT | | |
|---|----------------------------------|----------------------------------|-------------------------------|----------------------------------|----------------------------------|-------------------------------|
| | Non-Metallic Continuous Recovery | Non-Metallic Post-blast Recovery | Metallic Continuous Recycling | Non-Metallic Continuous Recovery | Non-Metallic Post-blast Recovery | Metallic Continuous Recycling |
| Underwater Hull/Boottop (with organotin AF paint) | | | | | | |
| Underwater Hull/Boottop (with organotin-free paint) | garnet | | | garnet | | |
| Exterior Topside | garnet Al oxide | | | garnet Al oxide | | |
| Decks Non-Skid | | | steel shot | | | steel shot |
| Decks Other Coatings | | | steel shot | | | steel shot |
| Superstructures | garnet | | | garnet | | |
| Ballast or Bilge Tanks | | | steel grit | | | steel grit |
| Fuel Tanks | | | steel grit | | | steel grit |
| Interior Hulls | | | steel grit | | | steel grit |
| Potable Water Tanks | | | steel grit | | | steel grit |
| FRP Domes and Other Composite Surfaces | | | | | | |
| Aluminum Entrances and Other Surfaces | garnet Al oxide | | | garnet Al oxide | | |
| Miscellaneous Surfaces and Substrates | garnet Al oxide | | | garnet Al oxide | | |

Table 6: Survey of Abrasive Practice at Shipyard C

| | COMPLETE REPAINT | | | PARTIAL REPAINT | | |
|---|----------------------------------|------------------------------------|-------------------------------|----------------------------------|----------------------------------|-------------------------------|
| | Non-Metallic Continuous Recovery | Non-Metallic Post-blast Recovery | Metallic Continuous Recycling | Non-Metallic Continuous Recovery | Non-Metallic Post-blast Recovery | Metallic Continuous Recycling |
| Underwater Hull/Boottop (with organotin AF paint) | | garnet coal slag | | | garnet coal slag | |
| Underwater Hull/Boottop (with organotin-free paint) | | garnet coal slag | | | garnet coal slag | |
| Exterior Topside | | garnet coal slag | | | garnet coal slag | |
| Decks Non-Skid | | garnet | steel shot | | garnet coal slag | steel shot |
| Decks Other Coatings | | garnet coal slag | | | garnet coal slag | |
| Superstructures | | garnet coal slag | | | garnet coal slag | |
| Ballast or Bilge Tanks | | garnet coal slag | | | garnet coal slag | |
| Fuel Tanks | | garnet coal slag | | | garnet coal slag | |
| Interior Hulls | | garnet coal slag | | | garnet coal slag | |
| Potable Water Tanks | | garnet coal slag | | | garnet coal slag | |
| FRP Domes and Other Composite Surfaces | | garnet coal slag | | | garnet coal slag | |
| Aluminum Entrances and Other Surfaces ^a | | Al oxide | | | Al oxide | |
| Miscellaneous Surfaces and Substrates ^a | | garnet baking soda coal slag | | | garnet coal slag | |

a. High pressure water jetting (HPWJ) is used on miscellaneous surfaces and substrates for complete repainting and on aluminum surfaces for partial repaint.

Table 7: Survey of Abrasive Practice at Shipyard D

| | COMPLETE REPAINT | | | PARTIAL REPAINT | | |
|---|----------------------------------|----------------------------------|-------------------------------|----------------------------------|----------------------------------|-------------------------------|
| | Non-Metallic Continuous Recovery | Non-Metallic Post-blast Recovery | Metallic Continuous Recycling | Non-Metallic Continuous Recovery | Non-Metallic Post-blast Recovery | Metallic Continuous Recycling |
| Underwater Hull/Boottop (with organotin AF paint) | | coal slag | | | coal slag | |
| Underwater Hull/Boottop (with organotin-free paint) | | coal slag | | | coal slag | |
| Exterior Topside | | coal slag | | | coal slag | |
| Decks Non-Skid | | coal slag | steel shot | | coal slag | steel shot |
| Decks Other Coatings | | coal slag | | | coal slag | |
| Superstructures | | coal slag | | | coal slag | |
| Ballast or Bilge Tanks | | coal slag | | | coal slag | |
| Fuel Tanks ^a | | | | | | |
| Interior Hulls | | coal slag | | | coal slag | |
| Potable Water Tanks | | coal slag | | | coal slag | |
| FRP Domes and Other Composite Surfaces | | coal slag | | | coal slag | |
| Aluminum Entrances and Other Surfaces | | | | | | |
| Miscellaneous Surfaces and Substrates | | coal slag | | | coal slag | |

a. High pressure water jetting (HPWJ) is used on fuel tanks for both complete repainting for partial repaint.

D. Specifications and Standards for Blast Cleaning Abrasives

A comparison of all abrasive specifications reviewed during the production of deliverable item 1 is given in this section. The comparison begins with a listing of relevant specifications for mineral and metallic abrasives. Table 8 shows the listing of International Organization for Standardization (ISO) abrasive specifications for metallic abrasives, following which in Table 9 are the ISO specifications for mineral abrasives.

Table 8: ISO Metallic Abrasive Specifications

| Designation | Title | Availability |
|--------------------|---|---------------------|
| ISO 11124 | Specification for metallic blast-cleaning abrasives | |
| Part 1 | General introduction and classification | yes |
| Part 2 | Chilled-iron grit | yes |
| Part 3 | High-carbon cast-steel shot and grit | yes |
| Part 4 | Low-carbon cast-steel shot | yes |
| Part 5 | Cut steel wire | no ^a |
| ISO 11125 | Test methods for metallic blast-cleaning abrasives | |
| Part 1 | Sampling | yes |
| Part 2 | Determination of particle size distribution | yes |
| Part 3 | Determination of hardness | yes |
| Part 4 | Determination of apparent density | yes |
| Part 5 | Determination of percentage defective particles and of microstructure | yes |
| Part 6 | Determination of foreign matter | yes |
| Part 7 | Determination of moisture | yes |
| Part 8 | Determination of abrasive mechanical properties | no |

- a. The denotation of "no" for standard availability indicates that a draft standard is under review by the responsible ISO Technical Committee.

Table 9: ISO Specifications for Mineral Abrasives

| | | |
|------------------|---|-----|
| ISO 11126 | Specifications for non-metallic blast-cleaning abrasives | |
| Part 1 | General introduction and classification | yes |
| Part 2 | Silica sand | no |
| Part 3 | Copper refinery slag | yes |
| Part 4 | Coal furnace slag | yes |
| Part 5 | Nickel refinery slag | yes |
| Part 6 | Iron furnace slag | yes |
| Part 7 | Fused aluminum oxide | yes |
| Part 8 | Olivine sand | yes |
| Part 9 | Staurolite | no |
| Part 10 | Garnet | no |
| ISO 11127 | Test methods for non-metallic blast-cleaning abrasives | |
| Part 1 | Sampling | yes |
| Part 2 | Determination of particle size distribution | yes |
| Part 3 | Determination of apparent density | yes |
| Part 4 | Assessment of hardness by a glass slide test | yes |
| Part 5 | Determination of moisture | yes |
| Part 6 | Determination of water-soluble contaminants by conductivity measurement | yes |
| Part 7 | Determination of water-soluble chlorides | yes |
| Part 8 | Determination of abrasive mechanical properties | no |

Table 10 presents selected definitions common to all abrasive materials used. Table 11 includes definitions unique to metallic abrasives, while Table 12 contains unique definitions for mineral abrasives as used in ISO specifications. Common abbreviations for abrasive material types, along with the profile expectations, taken from ISO specifications are shown in Table 13.

Table 10: Selected ISO Definitions for Any Abrasive Materials

| Term | Definition |
|--------------------------|---|
| blast-cleaning abrasive: | Solid material intended to be used for abrasive blast-cleaning. |
| abrasive blast-cleaning: | Impingement of a high-kinetic-energy stream of blast-cleaning abrasive on to the surface to be prepared. |
| shot: | Particles that are predominantly round, that have a length of less than twice the maximum particle width and that do not have edges, broken faces or other sharp surface defects. |
| grit: | Particles that are predominantly angular, that have fractured faces and sharp edges and that are less than half-round in shape. |
| cylindrical: | Sharp-edged particles, having a diameter to length ratio of 1:1, cut so that their faces are approximately at right angles to their centerline. |
| defect: | A fault or weakness in an abrasive which, if present at or above a given level, may be detrimental to the performance of the abrasive. |
| void: | A smooth-surfaced internal cavity considered undesirable when greater than 10% of the cross-sectional area of a particle. |
| shrinkage defect: | An internal cavity with a rough dendritic surface or zone of microporosity, considered undesirable when greater than 40% of the cross-sectional area of a particle. |
| crack: | A linear discontinuity that has a length-to-width ratio of 3:1 or greater, that extends over more than 20% of the diameter or shortest dimension of a particle and that is radial in direction. |
| foreign matter: | Any material or particles mixed with the abrasive which are not attached to the abrasive particles and which are nonmagnetic. |

Table 11: Selected ISO Definitions for Metallic Abrasive Materials

| Term | Definition |
|------------------------------|--|
| chilled-iron grit: | A metallic blast-cleaning abrasive produced by crushing various chilled-iron shot sizes into sharp-edged angular particles. |
| chilled iron shot: | A metallic blast-cleaning abrasive produced by a casting process in which molten iron is formed into shot by means of an atomization process. |
| high-carbon cast-steel shot: | A metallic blast-cleaning abrasive produced by a casting process in which molten high-carbon steel is formed into shot by means of an atomization process. |
| high-carbon cast-steel grit: | A metallic blast-cleaning abrasive produced by crushing various high-carbon cast-steel shot sizes into sharp-edged angular particles. |
| low-carbon cast-steel shot: | A metallic blast-cleaning abrasive produced by a casting process in which molten low-carbon steel is formed into shot by means of an atomization process. |

Table 12: Selected ISO Definitions for Mineral Abrasives

| Term | Definition |
|--|--|
| copper refinery slag: | A synthetic mineral blast-cleaning abrasive manufactured, by granulation in water, drying and sieving, with or without mechanical crushing processes, from slag originating from copper smelting. It is basically iron silicate slag. |
| coal furnace slag: | A synthetic mineral blast-cleaning abrasive manufactured, by granulation in water, drying and sieving, with or without mechanical crushing, from slag originating when coal is burned in coal-fired power stations. It is basically aluminum silicate slag. |
| nickel refinery slag: | A synthetic mineral blast-cleaning abrasive manufactured, by granulation in water, drying and sieving, with or without mechanical crushing processes, from slag originating from nickel smelting. It is basically iron silicate slag. |
| iron furnace slag: | A synthetic mineral blast-cleaning abrasive manufactured, by granulation in water, drying and sieving, with or without mechanical crushing processes, from slag originating from iron smelting. It is basically calcium silicate slag. |
| fused aluminum oxide: | A synthetic mineral blast-cleaning abrasive, which is classified as two types, A and WA. |
| <p><u>Type A</u> is mainly composed of crystalline corundum which is brown in color and consists of a solid solution containing a minimum of 94% aluminum oxide and a maximum of 4% titanium dioxide. Type A is produced by fusing bauxite with the appropriate quantity of titanium dioxide and reducing agent in an electric furnace, cooling to form lumps and then crushing and sieving to size.</p> | |
| <p><u>Type WA</u> consists of crystalline corundum which is whitish in color and contains at least 99% aluminum oxide. It is produced by fusing, in an electric furnace, pure aluminum oxide and is refined.</p> | |
| olivine sand: | A mineral manufactured from the naturally occurring mineral olivine which is crushed by a mechanical process, dried and sieved and prepared for use as a blast-cleaning abrasive. Olivine is a magnesium/iron silicate with the chemical formula $\text{MgO} \cdot \text{SiO}_2 \cdot \text{Fe}_2\text{O}_3$ (Mg, Fe) Si_2O_4 . |
| staurolite mineral: | A naturally occurring mineral sand, staurolite, which is mined, concentrated, scrubbed, dried, and further purified using high-intensity electrostatic and magnetic processes, and prepared for use as a blast cleaning abrasive. Staurolite is an iron/aluminum silicate with the chemical formula $\text{FeAl}_5\text{SiO}_{12}\text{OH}$. |
| garnet: | A material manufactured from the naturally occurring mineral, garnet, which is dried and sieved, with or without mechanical crushing, and prepared for use as a blast cleaning abrasive. There are two significantly different garnet minerals used for blast cleaning. Almandite garnet is an iron aluminum silicate with the chemical formula $\text{Fe}_3\text{Al}_2(\text{SiO}_4)_3$. Andradite garnet is a calcium iron silicate with the chemical formula $\text{Ca}_3\text{Fe}_2(\text{SiO}_4)_3$. These garnet abrasives differ in appearance, hardness, specific gravity, and other properties. |

Table 13: Commonly Used Blast Cleaning Abrasives for Steel Substrate Preparation

| Type | | | Abbreviation | Initial Particle Shape | Particle Shape Comparator ^a | Specification |
|--|----------------------|---------------------------|--------------|------------------------|--|---------------------------|
| Metallic (ISO 11124) | Cast Iron | Chilled | M/CI | G | G | ISO 11124-2 |
| | Cast Steel | High-carbon | M/HCS | S or G | S ^b | ISO 11124-3 |
| | | Low-carbon | M/LCS | S | S | ISO 11124-4 |
| | Cut Steel Wire | - | M/CW | C | S ^b | ISO 11124-5 ^c |
| Natural (non-metallic) (ISO 11126) | Silica Sand | | N/SI | G | G | ISO 11126-2 ^c |
| | Olivine Sand | | N/OL | G | G | ISO 11126-8 |
| | Staurolite | | N/ST | S/G | S | ISO 11126-9 ^c |
| | Garnet | | N/GA | G | G | ISO 11126-10 ^c |
| Synthetic (non-metallic) (ISO 11126) | Iron Furnace Slag | (Calcium silicate slags) | N/FE | G | G | ISO 11126-6 |
| | Copper Refinery Slag | (Ferrous silicate slags) | N/CU | G | G | ISO 11126-3 |
| | Nickel Refinery Slag | (Ferrous silicate slags) | N/NI | G | G | ISO 11126-5 |
| | Coal Furnace Slag | (Aluminum silicate slags) | N/CS | G | G | ISO 11126-4 |
| | Fused Aluminum Oxide | | N/FA | G | G | ISO 11126-7 |

| Particle shape designation | ISO 8503-2 | |
|----------------------------|------------|--|
| Shot - round | (S) | |
| Grit - angular, irregular | (G) | |
| Cylindrical - sharp-edged | (C) | |

- A comparator is to be used when assessing the resultant surface profile. The method is described in the ISO 8503-2 specification. The classes of abrasive shape from ISO 8503-2 are given in the lower section of this table. These classes of abrasive shape are used to label the corresponding surface profile comparator suggested in ISO 8503-2.
- Certain abrasives change shape rapidly when used. The appearance of the profile approaches that of the "shot" comparator.
- As of November 1997, ISO abrasive specifications had not been issued for Cut Steel Wire, Staurolite, Garnet or Silica Sand.

Table 14: ISO Metallic Blast Cleaning Abrasives Hardness Requirements

| Abrasive | Hardness ^a (Vickers) HV |
|--|---|
| Chilled-iron grit | 650 minimum |
| High-carbon cast-steel shot | 390 to 530 |
| High-carbon cast-steel grit Five discrete ranges of hardness defined. | 390 to 530 470 to 610 570 to 710 700 minimum |
| Low-carbon cast-steel shot | 390 to 520 |

a. Hardness is measured with ISO Standard 11125-3

Hardness requirements for metallic abrasives, taken from ISO specifications are shown above in Table 14, and particle size shape requirements are shown below in Table 15. High carbon steel grit has five ranges of hardness. These ranges have their origins in the abrasive hardness ranges for high-carbon steel grit in the Society of Automotive Engineers (SAE) J1993 recommended practice for cast steel grit. SAE J1993 contains three hardness ranges, roughly corresponding to HV ranges 390 to 530, 530 to 700 and 700 minimum values. European practice is to span hardness ranges as shown in first three hardnesses for high-carbon cast steel grit. The four ranges defined in the resulting ISO 11124-3 standard are a compromise to minimize commercial disruption to the European and U.S. metallic abrasive industries. The fourth range of HV 700 minimum was retained to maintain U.S. specification compliance following issuance of the ISO 11124-3 standard. Composition requirements for ISO metallic abrasives are shown in Table 16 on page 41. The ISO specifications for metallic abrasives are directly modeled on the respective SAE specifications in all regards except sizing. A comparison of sizing information is given later in Table 23 on page 46 for SAE, ISO, Steel Founder's Society of America, (SFSA) and Deutsche Industrie Norm, (DIN) specifications.

Table 15: ISO Particle Requirements for Metallic Blast-Cleaning Abrasives

| Property | Type of metallic abrasive (ISO 11124) | | | | Test method |
|---|---------------------------------------|---------------------------------------|--|--------------------------------------|-------------|
| | Chilled-iron Grit (11124-2) | High-carbon cast-steel Shot (11124-3) | High-carbon cast-steel Grit (11124-3) | Low-carbon cast-steel Shot (11124-4) | |
| Defects | | | | | ISO 11125-5 |
| Particle shape | max. 10% shot or more than half-round | max. 5% non-round | max. 10% shot or more than half-round for grit up to 700 HV; max. 5% for grit above 700 HV | max. 15% non-round | |
| Voids | max. 10% | max. 10% | max. 10% | max. 15% | |
| Shrinkage defect | max. 10% | max. 10% | max. 10% | max. 5% | |
| Cracks | max. 40% | max. 15% | max. 40% | none | |
| Total defects | max. 40% | max. 20% | max. 40% | max. 20% | |
| Particles with more than one of the above defects shall be counted only once in this total. | | | | | |

Table 16: ISO Composition Requirements for Metallic Blast-Cleaning Abrasives

| | Type of metallic abrasive (ISO 11124) | | | | |
|---------------------------------|--|---|---|--|---|
| Property | Chilled-iron Grit (11124-2) | High-carbon cast-steel Shot (11124-3) | High-carbon cast-steel Grit (11124-3) | Low-carbon cast-steel Shot (11124-4) | Test method |
| Structure | Chilled-iron grit abrasives shall have a white iron type microstructure of iron carbide in martensite. Partial decarburization, free graphite or ferrite shall be less than 5% in any single particle. (Note 1) No more than 15% of the particles tested shall have undesirable microstructure. | Cast-steel shot and grit abrasives shall have a uniform martensite and/or bainite microstructure, tempered to a degree consistent with the hardness range, with fine, well-distributed carbides, if any. Partial decarburization, carbide networks and interdendritic grain boundary segregation with high-temperature transformation products such as pearlite are undesirable. No more than 15% of the particles tested shall have undesirable microstructure. | | Low-carbon cast-steel shot abrasives shall have a bainitic or martensitic structure. (Note 1) No more than 15% of the particles tested shall have undesirable microstructure. | ISO 11125-5 |
| Chemical Composition | min. 1.7% (m/m) carbon content in the finished product | Carbon 0.80% to 1.2% (m/m) Manganese 0.35% to 1.2% (m/m) Silicon min. 0.4% (m/m) Sulfur max. 0.05% (m/m) Phosphorus max. 0.05% (m/m) The manganese content shall be sufficiently high to achieve the required hardness throughout the section of all particles. | | Carbon 0.08 to 0.20% Manganese 0.35 to 1.50% Silicon 0.10 to 2.00% Sulfur max. 0.05% Phosphorus max. 0.05% | ISO 9556 ISO 629 ISO 439 ISO 4935 ISO 10714 |
| Hardness | 90% of the particles tested shall have a hardness above 650 HV. (Note 2) | 90% of the particles tested shall have a hardness within one of the ranges specified below: (Note 3) 390 to 530 HV | 390 to 530 HV 470 to 610 HV 570 to 710 HV 700 HV minimum | 90% of the particles tested shall have a hardness range of 390 to 520 HV. (Note 2) | ISO 11125-3 |
| Apparent density | min. 7000 kg/m ³ (7.0 kg/dm ³) | | | | ISO 11125-4 |
| Foreign matter (including slag) | Max. 1% (m/m) | | | | ISO 11125-6 |
| Moisture | max. 0.2% (m/m) | | | | ISO 11125-7 |

Below begins a series of tables describing properties of mineral abrasives. Unlike the ISO specifications for metallic abrasives the corresponding U.S. military or industry specifications are not directly equal to the ISO specifications. Table 17 on page 42 summarizes composition and fundamental characteristic requirements for the mineral abrasives described in specifications under ISO designation 11126. Table 18 on page 42 provides a point of comparison with the requirements for mineral abrasives in SSPC-AB 1, "Specification for Mineral and Slag Abrasives." Table 19 on page 43 compares the common property requirements of SSPC-AB 1 with the various parts of ISO 11126. These property requirements are then compared with those found in MIL-22262B(SH), "Abrasive Blasting Media, Ship Hull Blast Cleaning." Another military speci-

fication of importance to the shipbuilding industry is MIL-G5634-C, (superseded by A-A-1722 - GRAIN, ABRASIVE (SOFT BLASTING),) this covers requirements for agricultural by-product abrasives.

Table 17: ISO Requirements for Non-Metallic Blast Cleaning Abrasives

| Property | | Copper Refinery Slag (11126-3) | Coal Furnace Slag (11126-4) | Nickel Refinery Slag (11126-5) | Iron Furnace Slag (11126-6) | Fused Aluminum Oxide (11126-7) | Olivine Sand (11126-8) | Test Method | Staurolite ^a | Garnet ^a |
|--|-----------------------|--------------------------------|-----------------------------|--------------------------------|-----------------------------|--------------------------------|------------------------|-------------|-------------------------|---------------------|
| Particle size range and distribution | | See Table 20 | | | | | | ISO 11127-2 | See Table 20 | |
| Apparent density | kg/m ³ | 3300 to 3900 | 2400 to 2600 | 3300 to 3900 | 3000 to 3300 | 3900 to 4000 | 3000 to 3300 | ISO 11127-3 | 2100 to 2300 | 3100 to 4100 |
| | [kg/dm ³] | [3.3 to 3.9] | [2.4 to 2.6] | [3.3 to 3.9] | [3.0 to 3.3] | [3.9 to 4.0] | [3.0 to 3.3] | | [2.1 to 2.3] | [3.1 to 4.1] |
| Mohs hardness | | min. 6 | min. 6 | min. 6 | min. 6 | min. 6 | min. 6 | ISO 11127-4 | min. 5.5 | min. 6 |
| Moisture | % (m/m) | max 0.2 | max 0.2 | max 0.2 | max 0.2 | max 0.2 | max 0.2 | ISO 11127-5 | max 0.1 | max 0.2 |
| Conductivity of aqueous extract (mS/m) | | max. 25 | max. 25 | max. 25 | max. 25 | max. 25 | max. 25 | ISO 11127-6 | max. 25 | max. 25 |
| Water-soluble chlorides% (m/m) | | max. 0.0025 | max. 0.0025 | max. 0.0025 | max. 0.0025 | max. 0.0025 | max. 0.0025 | ISO 11127-7 | max. 0.0025 | max. 0.0025 |

- a. As of December, 1997, ISO 11126, Part 2: Silica sand, Part 9: Staurolite and Part 10: Garnet have not been issued.

Table 18: SSPC-AB 1¹ Requirements for Non-Metallic Blast Cleaning Abrasives

| Properties | Requirement | | Test Procedure |
|---------------------------|-------------|------------|-----------------------------------|
| | min. | max. | |
| Specific gravity | 2.5 | | ASTM C 128 |
| Hardness | 6 | | Mohs scale |
| Weight change on ignition | -1.0% | +0.05% | Heat to 750° C (1382° F) |
| Water soluble contaminant | | 1000 µS/cm | ASTM D 4940 |
| Moisture content | | 0.5% | ASTM C 566 |
| Oil content | | none | Observe surface of water extract. |

1. Steel Structures Painting Council specification SSPC-AB 1, Mineral and Slag Abrasives.

Table 19: ISO, SSPC and Military Specifications Compared - Mineral Abrasives

| Requirement | ISO | SSPC | Military ^c | Method |
|--|--------------------------|---|-------------------------------------|--|
| Crystalline Silica | Varies | 3 Classes Allowed: A - <1.0%; B - <5.0%; C - no limit | <1.0% | Military - IR Spectra SSPC - IR Spectra or X-Ray Diffraction |
| Apparent Density | Varies see Table 17 | 2.5 minimum | 2.5 minimum | ISO 11127-3 Others - ASTM C188 |
| Hardness | Varies see Table 17 | 6 | 6 | ISO 11127-4 Others - Moh's Scale |
| Moisture Content | <0.2% | <0.5% | <0.5% | ISO 11127-5 Others - ASTM C 566 |
| Conductivity of aqueous extract mS/m | <25 | <1000 | <290 | ISO 11127-6 Others ASTM D 4940 |
| Water-soluble chlorides% (m/ m) | <0.0025 | Not Set | <0.03% | ISO 11127-7 Military - ASTM D 1411 |
| Weight Change on Ignition | Not Set | > -1.0% - <5.0% | > -1.0% - <5.0% | Military - Heat to 1000°C SSPC - Heat to 750°C |
| Oil Content | Not Set | Visibly free | <0.03% | SSPC - Visual Military - Freon Extraction |
| Size Gradation | Varies - see Table 20 | Classed According to Profile Achieved ^a | Graded by Batch | ISO 11127-2 Others - ASTM C 117 |
| Friability | Not Set | Not Set | California Lim- its ^b | California Test Method 371-A |
| General Compo- sition | Varies - see Table 12 | Not Set | Not Set | |
| Soluble Metals | Not Set | Not Set | Table I ^c | Military - California Adminis- trative Code Title 22 |
| Trace Metals | Not Set | Not Set | Table II ^c | Military - as above |
| Toxic Materials | Not Set | Not Set | Table III ^c | EPA TCLP Method ^d |
| Radioactivity | Not Set | Not Set | <20 picoCuries/g | In MIL-A-22262B(SH) |

a. Grade 1, 13 to 38 μm (0.5 to 1.5 mils), Grade 2, 25 to 64 μm (1.0 to 2.5 mils), Grade 3, 51 to 89 μm (2.0 to 3.5 mils), Grade 4, 75 to 127 μm (3.0 to 5.0 mils), Grade 5, 102 to 152 μm (4.0 to 6.0 mils)

b. Meet California Administrative Code, title 17, subchapter 6, section 92530 and be present on list of California Air Resources Board (CARB) accepted abrasives

c. From MIL-A-22262B(SH)

d. Federal Register (FR), Volume 55, paragraph 11798, March 19, 1990 (55 FR 11798), Toxicity Characteristic Leaching Procedure (TCLP).

Table 20: ISO Size Designations for Mineral Abrasive

| Particle size range ^a (mm) | | 0.2 to 0.5 | 0.2 to 1 | 0.2 to 1.4 | 0.2 to 2 | 0.2 to 2.8 | 0.5 to 1 | 0.5 to 1.4 | 1 to 2 | 1.4 to 2.8 |
|--|-----|---------------|-------------|---------------|-------------|---------------|-------------|---------------|-----------|---------------|
| Oversize | | | | | | | | | | |
| Sieve size | mm | 0.5 | 1 | 1.4 | 2 | 2.8 | 1 | 1.4 | 2 | 2.8 |
| Residue% (m/m) | max | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 |
| Nominal size | | | | | | | | | | |
| Sieve size | mm | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.5 | 0.5 | 1 | 1.4 |
| Residue% (m/m) | max | 85 | 85 | 85 | 85 | 85 | 80 | 80 | 80 | 80 |
| Undersize | | | | | | | | | | |
| Sieve size | mm | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.5 | 0.5 | 1 | 1.4 |
| Through-flow% (m/m) | max | 5 | 5 | 5 | 5 | 5 | 10 | 10 | 10 | 10 |

a. Taken from the ISO 11127-2 standard.

Table 21: Typical Data from SSPC and Other Laboratory Studies

| Property ^a | Copper Refinery Slag | Coal Furnace Slag | Nickel Refinery Slag | Iron Furnace Slag | Fused Aluminum Oxide | Olivine Sand | Test Method | Staurolite | Garnet | Silica Sand |
|---|----------------------------|-------------------------|----------------------------|-------------------------|----------------------------|-----------------|----------------|------------|----------|----------------|
| Specific gravity | 3.3 | 2.8 | 3.2 | | 3.8 | | | 4.5 | 4.0 | 2.7 |
| Mohs hardness ^b | >6 | ≥6 | ≥6 | | ≥6 | | | ≥6 | ≥6 | 4 to 6 |
| Conductivity of aqueous extract mS/m | 5.6 to 130 | 2.4 to 16 | 26 | | | | (Note1) | 38 to 46 | 9 to 50 | 4 to 34 |
| pH | 8.2 to 10.3 | 4.8 to 7.7 | 7 | | | | (Note1) | 7.6 to 8 | 7 to 9.8 | 5.3 to 9.3 |
| Water-soluble chlorides% (m/m) | | | | | | | (Note1) | | | |

a. Results from a round-robin study of abrasive material conformance with ASTM D 4940 on behalf of ASTM D01 with participation by SSPC and other laboratories.

b. Data supplied by abrasive manufacturers submitting samples to round robin.

Table 22: Non-Metallic Blast Cleaning Abrasives

| Abrasive | ISO Definition | Apparent density | |
|----------------------|---|-------------------|--------------------|
| | | kg/m ³ | kg/dm ³ |
| Copper Refinery Slag | A synthetic mineral blast-cleaning abrasive manufactured, by granulation in water, drying and sieving, with or without mechanical crushing processes, from slag originating from copper smelting. It is basically iron silicate slag. | 3300 to 3900 | 3.3 to 3.9 |
| Coal Furnace Slag | A synthetic mineral blast-cleaning abrasive manufactured, by granulation in water, drying and sieving, with or without mechanical crushing, from slag originating when coal is burned in coal-fired power stations. It is basically aluminum silicate slag. | 2400 to 2600 | 2.4 to 2.6 |
| Nickel Refinery Slag | A synthetic mineral blast-cleaning abrasive manufactured, by granulation in water, drying and sieving, with or without mechanical crushing processes, from slag originating from nickel smelting. It is basically iron silicate slag. | 3300 to 3900 | 3.3 to 3.9 |
| Iron Furnace Slag | A synthetic mineral blast-cleaning abrasive manufactured, by granulation in water, drying and sieving, with or without mechanical crushing processes, from slag originating from iron smelting. It is basically calcium silicate slag. | 3000 to 3300 | 3.0 to 3.3 |
| Fused Aluminum Oxide | A synthetic mineral blast-cleaning abrasive, which is classified as two types, A and WA. Type A is minimum 94% aluminum oxide and maximum 4% titanium dioxide and is brown in color. Type WA contains at least 99% aluminum oxide and is whitish in color. | 3900 to 4000 | 3.9 to 4.0 |
| Olivine Sand | A mineral manufactured from the naturally occurring mineral olivine which is crushed by a mechanical process, dried and sieved and prepared for use as a blast-cleaning abrasive. Olivine is a magnesium silicate. | 3000 to 3300 | 3.0 to 3.3 |
| Staurolite | A naturally occurring mineral sand which is mined, concentrated, scrubbed, dried, and further purified using high-intensity electrostatic and magnetic processes, and prepared for use as a blast cleaning abrasive. Staurolite is an iron/aluminum silicate. | 2100 to 2300 | 2.1 to 2.3 |
| Garnet | A material manufactured from the naturally occurring mineral, garnet, which is dried and sieved, with or without mechanical crushing, and prepared for use as a blast cleaning abrasive. There are two different garnet minerals used for blast cleaning. | 3100 to 4100 | 3.1 to 4.1 |

Table 23: Metallic Shot and Grit Size Designations Compared

| | ISO | SAE J444 ^{a,b} | SFSA 20-66 ^c and 21-68 ^d | BS 2451 ^e | DIN 8201 Teil 2 |
|-------------------------|------|-------------------------|--|----------------------|------------------------|
| Shot^f | S400 | S1320 | | S1320 | -- |
| | S300 | S1110 | | S1110 | -- |
| | S280 | S930 | | S950 | -- |
| | S240 | S780 | 780 | S800 | 2,0 to 2,8 |
| | S200 | S660 | 660 | S660 | 1,6 to 2,24 |
| | S170 | S550 | 550 | S550 | 1,25 to 2,0 |
| | S140 | S460 | 460 | S470 | -- |
| | S120 | S390 | 390 | S390 | 1,0 to 1,6 |
| | S100 | S330 | 330 | S340 | 0,8 to 1,25 |
| | S080 | S280 | 280 | -- | 0,8 to 1,25 |
| | S070 | S230 | 230 | S240 | 0,6 to 1,0 |
| | S060 | S170 | 170 | S170 | 0,4 to 0,8 |
| | S040 | S110 | | S120 | 0,3 to 0,6 |
| | S030 | S70 | | S070 | 0,2 to 0,4 |
| | | | | | DIN 8201 Teil 3 |
| Grit^g | -- | -- | | G95 | -- |
| | G240 | G10 | G10 | G80 | 2,0 to 2,8 |
| | G200 | G12 | G12 | G66 | 1,6 to 2,24 |
| | G170 | G14 | G14 | G55 | 1,25 to 2,0 |
| | G140 | G16 | G16 | G47 | 1,0 to 1,6 |
| | G120 | G18 | G18 | G39 | 1,0 to 1,6 |
| | G100 | G25 | G25 | G34 | 0,8 to 1,25 |
| | G070 | G40 | G40 | G24/G17 | 0,6 to 1,0/0,4 to 0,8 |
| | G050 | G50 | G50 | G12 | "0,3 to 0,6" |
| | G030 | G80 | | G07 | "0,2 to 0,4" |
| | G020 | G120 | | G05 | "0,16 to 0,3" |
| | G010 | G200 | | G02 | "0,1 to 0,2" |
| | G005 | G325 | | G02 | -- |

- Military requirements for steel shot and steel grit, contained in MIL-S-851D, follow these levels
- Size requirements for newly manufactured or re-manufactured abrasive in SSPC-AB 3 follow SAE J444.
- SFSA 20-66 Standard Specification for Cast Steel Abrasives.
- SFSA 21-68 Standard Specification for Malleable Steel Abrasives.
- British Standard 2451 for Steel Abrasives.
- Most steel shot specifications use the prefix letter "S" with a grade of steel shot.
- Most steel grit specifications use the prefix letter "G" with a grade of steel grit.

D.1 Recent SSPC Specifications for Metallic Abrasives

SSPC-AB 2

The SSPC-AB 2 "Specification for Cleanliness of Recycled Ferrous Metallic Abrasives," was issued in May, 1996. The specification defines cleanliness requirements for recycling metallic abrasive material. Specific allowances of interest in recycled metallic abrasives include:

- Less than 1% by weight of non-magnetic material in the recycled metallic abrasive;
- Less than 0.1% by weight of lead (when tested in accordance with ASTM D 3335, digestion and atomic absorption).
- Water soluble contaminants are limited to less than 1,000 micromhos/cm.

It should be noted that metallic abrasives procured for use in naval shipbuilding are expected to meet the requirements of the governing military specification (MIL-S-851D), both before and after recycling. An abrasive with contaminant levels permitted at the levels allowed in SSPC-AB 2 will not meet these requirements.

SSPC-AB 3

The SSPC-AB 3 "Specification for Newly Manufactured or Re-Manufactured Abrasives," was issued in May, 1997. This specification corresponds with the SAE requirements from SAE J444 for sizing of metallic abrasive grit. The requirements for carbon content of the steel grit in SSPC-AB 3 differ from those shown in ISO 11124-3 (for high-carbon steel grit and shot). The specified level of allowed carbon in SSPC-AB 3 is up to 1.5%. The specified range of carbon in ISO 11124-3 is between 0.8% to 1.2%. The higher range of allowed carbon in the SSPC specification permits re-manufactured steel grits that do not meet the requirements of the ISO standard. The expectation of the SSPC-AB 3 standard is that the primary control on exact composition will be the hardness defined by the buyer.

National Shipbuilding Research Program

Project Number 3-95-7

User's Guide to Selection of Blasting Abrasives

Deliverable Item 6

The User's Guide to Selection of Blasting Abrasives

Prepared for: Peterson Builders, Inc. 41 N. Third Avenue, Sturgeon Bay, WI 54235-0648

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Part I The Abrasive Users Guide

1. Introduction

A. General

The User's Guide to Selection of Abrasives is a product of the National Shipbuilding Research Program (NSRP project 3-95-7). The guide provides information on the selection of abrasives based on:

- Task Descriptions;
- Qualification (against a specification);
- Cleaning Capability;
- Physical Properties;
- Costs;
- Surface Quality Requirements;
- Productivity in Use
- Safety, and;
- Environmental Impact.

Surface preparation by abrasive blasting involves a wide variety of cleaning requirements for new construction and ship repair. These range from cleaning of thin primers and light rust to removal of thick coatings, heavy rust and other aggressively adherent contaminants. The market offers a multitude of abrasives from which a user can choose. Some abrasives are used only once, others are recycled. Some abrasives are general purpose while others have more specialized applications.

To make a suitable choice of abrasive, a user must analyze preparation task requirements and match those to the production characteristics of available abrasives. Items to be taken into account include personal hygiene, environmental impact, waste disposal, material costs, productivity, cleaning effectiveness, coating performance, climatic effects, cleanliness standards, for both new and recyclable materials, and equipment costs. This guide provides a user with a simplified means to base a decision on the available data, industry standards and abrasive test methods.

B. Objective and Use of Guide

Objective

This guide was developed to help you select abrasives and provide information on their proper use in a shipyard setting. Specifically, this publication will provide guidelines on:

- Selecting and using abrasives for improved productivity, efficiency, performance and cost effectiveness, and;
- Minimizing impact of abrasives on worker health and safety, the environment, public health and assuring compliance with national and local regulations.

To help achieve these aims, a reader is taken through a decision process based on a task description. The process uses a series of flow-charts that link to tables and charts depicting abrasives, their performance characteristics and consequences of their use in typical applications.

Intended Audience

The intended audience for this guide are users, specifiers, engineers and purchasing agents in U.S. shipyards.

Major Uses of the Guide

The types of tasks you can perform with this guide include:

- Selection of abrasives for typical shipyard tasks.
- Estimation of productivity and consumption rates for one or more abrasives.
- Estimation of costs for individual tasks based on abrasive and operating condition choices.
- Comparison of productivity and consumption data with shipyard experience.

The flow-chart metaphor for abrasive selection is used for each of the above typical tasks. In the following sections are shown examples of this process in action.

C. Inputs and Outputs for Estimating Productivity & Consumption Rates

C.1 User Inputs

The following items of information are provided by the user of the guide.

Define Original Surface Conditions

The first stage in the process is to describe your task. This is done by first defining factors which are outside of your control, but which influence abrasive productivity. These factors include:

- The Type of Original Surface Being Cleaned; 1 of 4 choices allowed.
- The Hardness of the Coating on That Surface; 1 of 3 choices allowed.
- The Degree of Cleaning Specified; 1 of 4 choices allowed, and
- The Profile Demanded by the Specified Coating System; 1 of 3 choices allowed.

The choices made above generate a 4-digit code which can range from 1111 to 4343. For example, choosing light rust and millscale as the surface condition, hard coating, SSPC-SP 5 and the low profile range yields the code 1111.

Describe Operating Conditions

Operating conditions are in your control but are limited to selections of nozzle size and air pressure at the nozzle. Our guide tables only use the most common operating conditions of nozzle sizes 6 through 8 and pressures from 90 to 125 pounds per square inch (psi) at the nozzle.

C.2 Outputs to User from Guide

The basic outputs are production rates and consumption rates based on user selection of operating parameters and surface conditions. This information can be derived for several mineral abrasives, and for metallic abrasives. Costs for a specific job can be computed based on additional information furnished by the user.

D. Versions of The Guide

The guide is a text version of a stand-alone electronic database application. All the data on productivity and abrasive consumption contained in this guide come from the database application. The guide can be used independently from the database application, or it can be used in conjunction with the database application.

E. Contents of the Guide

The remainder of this guide is divided into the sections and appendices described below.

2. Using Guide for Estimating Abrasive Production and Consumption Rates

This section gives a step by step description of the user guide selection process, with examples.

3. Using Guide to Estimate Costs for a Specific Task

Cost estimating methods based on a cost model are shown in this section. The full cost model, and all equations for the same are shown in Appendix 5 -- "Equations for Use in Cost Modeling."

4. Comparing Productivity and Consumption Data with Shipyard Data

The guide provides a means for a user to collect data on abrasive consumption and productivity for comparison with the data in the guide tables.

5. Overview of Abrasives Used at Shipyards

This section describes why abrasives are used in a shipyard setting, the types of tasks requiring abrasives and how abrasives are bought and used.

6. Other Factors Affecting Abrasive Selection and Use

This section provides information about the influence of factors such as abrasive type, regulations and specifications on abrasive choice and procurement.

Appendix 1 Major Factors Affecting Abrasive Selection and Costs

This appendix section describes the major factors affecting abrasive selection.

Appendix 2 Relationships and Trade-offs in Abrasive Selections

This appendix section outlines some of the relationships between abrasive selections and productivity or abrasive consumption rate.

Appendix 3 Factors Affecting Abrasive Blast Cleaning at Shipyards

This appendix section provides background information on factors affecting abrasive blast cleaning work in a shipyard setting.

Appendix 4 Factors Limiting the Selection of Abrasives

This appendix section describes other factors which can limit the selection of abrasive such as specification requirements or health, safety and environmental regulations.

Appendix 5 Equations for Use in Cost Modeling

This appendix section provides full details of the equations used in cost modeling. The section also includes a fully worked example illustrating the use of the cost model.

Appendix 6 Regulatory Factors Affecting Abrasive Selection & Use

This appendix section provides background information about the regulatory factors affecting abrasive selection and use. The section contains information on the environmental impacts of abrasive use, and health and safety considerations during use of abrasives.

Tables of Abrasive Productivity & Consumption

Separately bound from the body of this guide are the data tables containing the productivity and consumption data for over thirteen different mineral, organic, and metallic abrasives. The data tables are used in conjunction with the text guide.

F. Supplementary Materials

As discussed earlier in paragraph D. above all data used in the productivity and consumption tables comes from a database application. This database application is available separately. The database application includes the modules described below. Users of the database application require access to a personal computer running Windows 95. The database application is accompanied by a simple written user's guide. Help windows are provided throughout each of the modules.

1. Abrasive Characteristics Module

A tutorial module which guides a user through the different ways in which abrasives are described and classified. Guidance is given on the influence that certain key characteristics of an abrasive have on abrasive use and finished surface quality and profile.

2. Abrasive Measurements Module

This module gives the user a graphical representation of typical sieve size distributions for many mineral or metallic abrasives. Size distributions are keyed to the profile requirements of a specification.

3. Abrasive Production and Consumption Rate Module

This is the module from which comes all the tables used with the guide.

4. Abrasive Cost Modeling Module

This is an interactive version of the cost modeling approach outlined in Section 3. and described in detail in Appendix Appendix 5. An advantage of the database version for cost modeling is that record keeping and calculation are automatic. All the user need do is describe their task and operation.

Figure: 1Flow Chart for Abrasive Selection

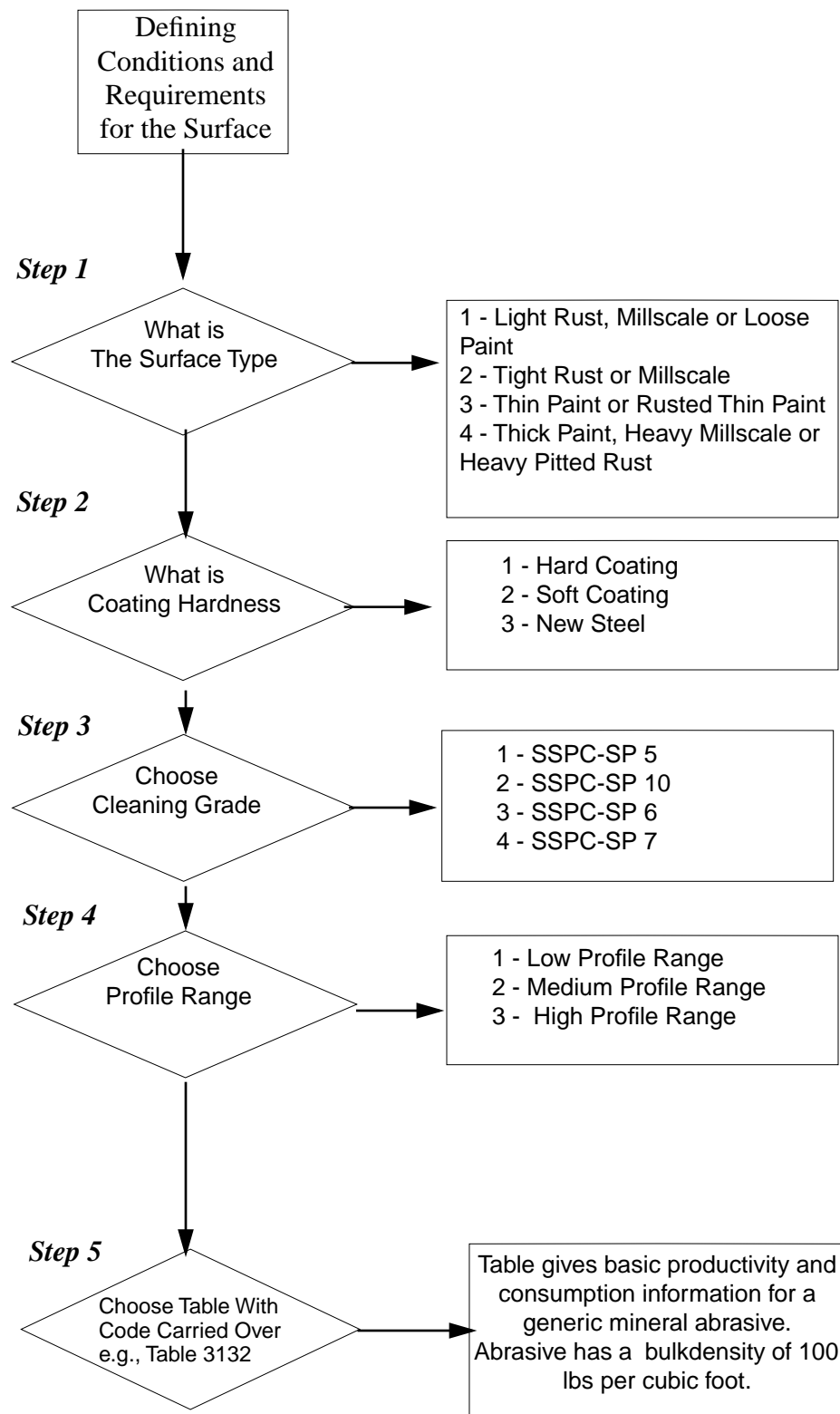
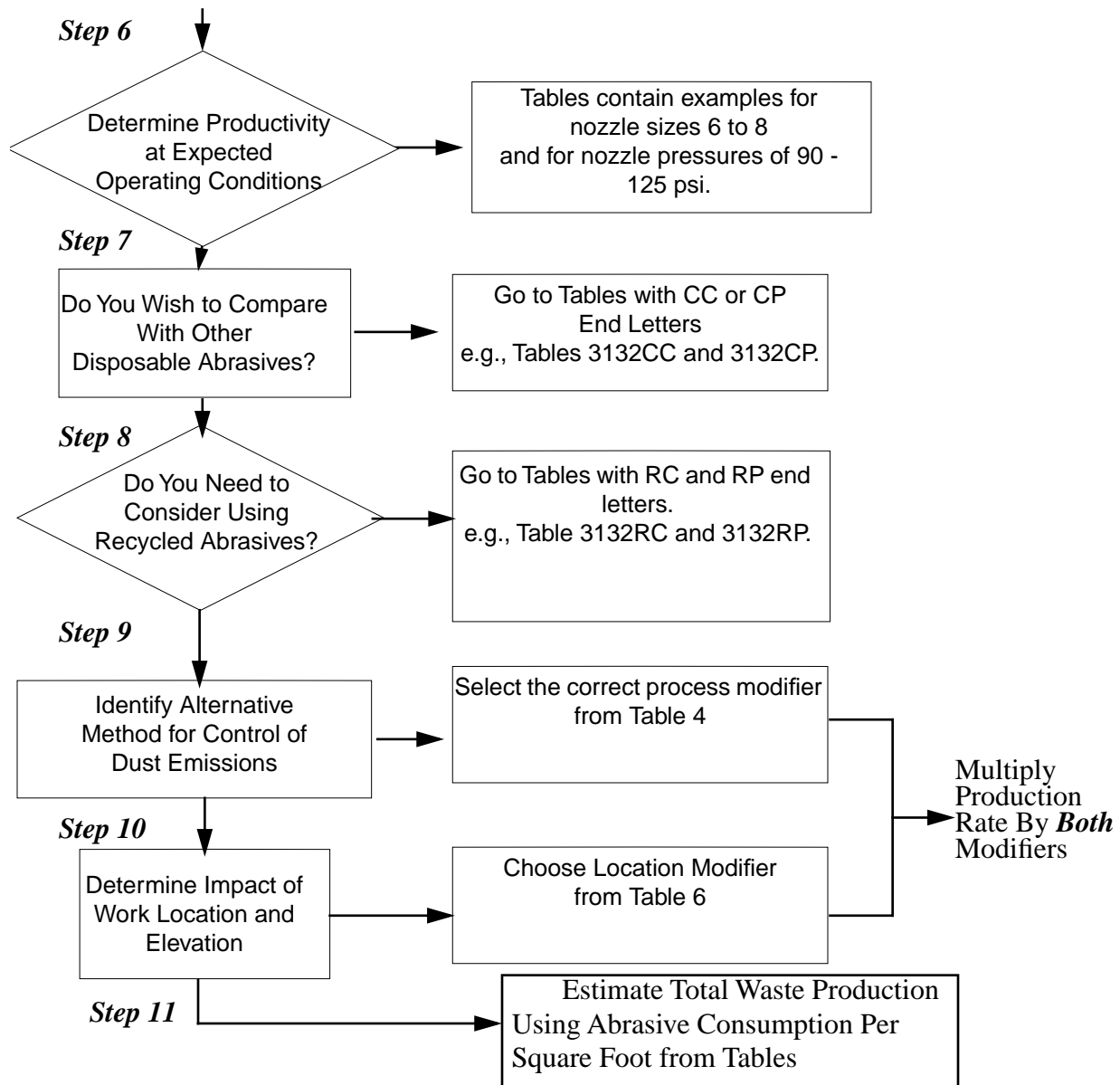


Figure 1:Flow Chart for Abrasive Selection (Continued)



2. Using Guide for Estimating Abrasive Production and Consumption Rates

A. Overview of Procedure

This section of the guide describes how to estimate production rates (sq ft/hr) and consumption rates (lbs/sq ft) for various abrasives. This is done by defining different surface conditions, operating parameters and other factors in an 11 step process:

- Step 1 Describe The Surface You Will Clean.
- Step 2 Determine Coating Hardness.
- Step 3 Choose Cleaning Grade.
- Step 4 Choose Profile Range.
- Step 5 Choose Table with Code Carried Over.
- Step 6 Determine Productivity at Expected Operating Conditions.
- Step 7 Do You Wish to Compare With Other Disposable Abrasives?
- Step 8 Do You Need to Consider Using Recycled Abrasives?
- Step 9 If needed, Identify Alternative Method for Control of Dust Emissions
- Step 10 Describe Impact of Work Location and Elevation.
- Step 11 Estimate Total Waste Production.

To select an abrasive, you first describe the task that abrasive will do. The better the task description, the better the choice(s) of abrasive. The five steps in describing a task are shown in Figure 1 on page 5. The first four steps define the surface you will clean, the hardness of the coating, the desired quality of the cleaned surface, and the required profile. These steps provide a "task descriptor," a number based on the choices made at each of the four steps. The fifth step takes you to a set of tables for the generated task descriptor. (Say you chose option number one for each of these four choices then you would look for Data Table 1111).

All the tables used with this guide are reproduced from a database application. You can use the database in lieu of this guide if you have access to a personal computer (see Section 1.F for more information about the database application).

The remaining steps are those in which actual selection of an abrasive takes place. The remaining steps also give the user the opportunity to refine the task description. This refined task description has two results. First, the choices of abrasive are narrowed down. Second, the productivity and cost estimates for the cleaning task are improved.

All eleven steps in the use of this guide are described in detail in the pages below.

B. Description of the Eleven Steps in the Decision Process

Use the eleven steps described below to help in abrasive selection.

Step 1: Describe The Surface You Will Clean

Choose the description which most closely matches the surface you want to clean. There are four basic descriptions given:

1. Light Rust, Millscale or Loose Paint. This is a deteriorated surface which requires little effort to clean.
1. Tight Rust or Millscale. This is new sheet steel plate.
2. Thin Paint or Rusted Thin Paint. This is previously coated steel plate where the coating thickness is no more than 5 mils.
3. Thick Paint, Heavy Millscale or Heavily Pitted Rust. This can be steel plate where the coating

thickness is greater than 10 mils.

This is done first because you are not “in control” of the type of surface requiring cleaning. Past records on productivity show that each of these four surface types provide different production rates for abrasives used under similar operating conditions.

Remember to note which choice you made, for instance choice 3.

Step 2: Determine Coating Hardness

It is also recognized that the type of surface coating plays a role in how productive you can be. For coated surfaces there are three descriptions - choose the one which matches most closely the type of coating being removed:

1. Hard coating - typically a chemically cured coating such as an epoxy or urethane, or zinc-filled coating.
1. Soft coating - typically a more readily etched or deformed surface such as an alkyd, latex, or chlorinated rubber coating.
2. No Coating (new millscale bearing steel).

The last of these choices is not a coating as such, but is needed for completeness. Remember to note which choice you made, for instance choice 1.

Step 3: Choose Cleaning Grade

Typically you will be told which level of cleaning is required in a specification. The guide also allows you to see what effect a different level of cleaning has on production rates or consumption. The grade of preparation chosen has a significant impact on the production and consumption rates of a given abrasive. Choose one of the four preparation grades below:

1. SSPC-SP 5 “White Metal Blast Cleaning.”
1. SSPC-SP 10 “Near White Metal Blast Cleaning.”
2. SSPC-SP 6 “Commercial Blast Cleaning.”
3. SSPC-SP 7 “Brush-Off Blast Cleaning.”

Please note your choice, for instance choice 3.

Step 4: Choose Profile Range

Profile requirements are often given in the coating material specification. There are three size range choices for profile requirements that span typical values found in specifications:

1. Low Profile Range - Between 1.5 and 2.5 mils.
1. Medium Profile Range - Between 2.5 and 4.0 mils
2. High Profile Range - Over 4.0 mils.

To achieve a low profile you will be selecting an abrasive with a lower overall size. This choice has an impact on the rate of cleaning because smaller abrasive particles will improve productivity.

Make a note of the choice you made, for instance 2 - Medium Profile.

Step 5: Choose Table with Code Carried Over

The four choices you made in Step 1 through Step 4 provide a code which identifies the table you should examine. In the example we chose options 3, 1, 3, 2. Thus the table we need to look at is Data Table 3132. This table is based on a typical mineral abrasive, having a bulk density of 100 pounds per cubic foot. At this point it is useful to see what effect your choice has on abrasive use rates, and how fast your work will be done.

The numbers from this table are shown in Table 1 on page 10. The table is also seen in its proper place among all the other tables later in this guide.

Step 6: Determine Productivity at Expected Operating Conditions

Operating conditions have a big impact on abrasive productivity and consumption. The operating conditions are defined in terms of nozzle sizes and pressure at the nozzle.

There are three nozzle sizes given. They are size, six, seven and eight (corresponding to 3/8", 7/16" and 1/2" diameter, respectively). There are several operating pressures given, ranging from 90 psi to 125 psi. (The electronic version of this guide provides more operating condition options. To save space, this printed guide only uses the most common combinations of operating conditions reported by shipyards and industry sources).

Because all combinations of nozzle pressure and nozzle size are given in the table you don't need to make a note of your choices here. Instead, the tables give you a glimpse of how productivity and consumption rates change with different combinations of the operating conditions.

Step 7: Do You Wish to Compare With Other Disposable Abrasives?

The guide also includes tables which give comparisons of one abrasive with another. These tables provide you with typical consumption rates in pounds per hour of blasting (and separately pounds of abrasive needed per square foot of cleaning) for fifteen different abrasive materials. These tables are quite large. They also have code numbers based on your earlier choices but have the letters added to the table identifier. The letters "CC" mean this is a table for abrasive consumption, the letter "CP" mean this a table for abrasive productivity in pounds of abrasive per square foot of cleaning. From our choices we need to look at Tables 3132CC and 3132CP. To save space, we only show a limited number of choices from these tables. Typical table content is shown in Table 2 on page 11. Typical abrasive choices for different shipyard surface preparation tasks are shown later in Table 7 on page 26.

Step 8: Do You Need to Consider Using Recycled Abrasives?

Some coatings when removed will generate a waste product which will test as a hazardous waste under the Toxic Characteristics Leaching Procedure (TCLP). Sometimes a facility may simply wish to reduce overall waste generation, regardless of the classification of the waste. Under these conditions you may wish to consider using recycled abrasive materials. The cost of waste disposal is influenced by this factor. It also may restrict your choices of abrasive to those you can recycle. Typical recyclable abrasives include metallic abrasives (steel or iron), garnet and aluminum oxide abrasives. One set of tables with information similar to Tables 3132CC and 3132CP is given for recyclable abrasives. These tables have the letter codes RCP and RP, so our example table is Tables 3132RCP. Examples from this table are shown below in Table 3 on page 12.

Table 1: Example of Production and Consumption Rates for A Typical Abrasive - “Data Table 3132”(See Note ^a)

| Nozzle Size - Standard Nozzle Size Numbers | Pressure At Nozzle - PSI | Consumption Rate - Pounds Per Hour of Blasting (See Note ^b) | Production Rates - sq. ft. per hour. (Rounded to nearest ten square feet). | | |
|--|-----------------------------|---|---|--------|------|
| | | | -25% (See Note ^c) | Median | +25% |
| 6 | 90 | 1052 | 200 | 270 | 340 |
| 7 | 90 | 1448 | 310 | 410 | 510 |
| 8 | 90 | 1856 | 410 | 540 | 680 |
| 6 | 100 | 1152 | 230 | 300 | 380 |
| 7 | 100 | 1584 | 340 | 450 | 560 |
| 8 | 100 | 2024 | 450 | 600 | 750 |
| 6 | 110 | 1226 | 250 | 330 | 410 |
| 7 | 110 | 1699 | 370 | 490 | 610 |
| 8 | 110 | 2164 | 500 | 660 | 830 |
| 6 | 125 | 1393 | 280 | 370 | 460 |
| 7 | 125 | 1931 | 420 | 560 | 700 |
| 8 | 125 | 2459 | 560 | 740 | 930 |

- a. Data Table 3132 indicates that these production and consumption rates reflect a task of removing thin soft paint to get a “Commercial Blast Cleaned” SSPC-SP 6 surface with a medium profile grade.
- b. The consumption and productivity figures given are for a “typical” mineral abrasive. This will have a bulk density of around 100 pounds per cubic foot.
- c. Productivity is given as a median and $\pm 25\%$ range because production rates can vary with operator use, even when operating conditions are closely defined.

Table 2: Data Table 3132CC (Upper) and 3132CP (Lower), Comparing Consumption Rates for one Abrasive With Another (See Note ^a)

| Operating Conditions | | Consumption Rate - Pounds Per Hour of Blasting (See Note ^b) | | |
|----------------------|----------------|---|---------------|-------------------|
| Nozzle | Pressure (PSI) | Typical Mineral Abrasive | Refinery Slag | Coal Furnace Slag |
| 6 | 90 | 1052 | 1578 | 1148 |
| 7 | 90 | 1448 | 2172 | 1580 |
| 8 | 90 | 1856 | 2784 | 2025 |
| 6 | 100 | 1152 | 1728 | 1257 |
| 7 | 100 | 1584 | 2376 | 1728 |
| 8 | 100 | 2024 | 3036 | 2208 |
| 6 | 110 | 1226 | 1839 | 1337 |
| 7 | 110 | 1699 | 2549 | 1853 |
| 8 | 110 | 2164 | 3246 | 2361 |
| 6 | 125 | 1393 | 2090 | 1520 |
| 7 | 125 | 1931 | 2897 | 2107 |
| 8 | 125 | 2459 | 3689 | 2683 |
| Operating Conditions | | Consumption Rate - Pounds Per Square Foot of Cleaning | | |
| Nozzle | Pressure (PSI) | Typical Mineral Abrasive | Refinery Slag | Coal Furnace Slag |
| 6 | 90 | 3.9 | 5.8 | 4.2 |
| 7 | 90 | 3.6 | 5.3 | 3.9 |
| 8 | 90 | 3.4 | 5.1 | 3.7 |
| 6 | 100 | 3.8 | 5.8 | 4.2 |
| 7 | 100 | 3.5 | 5.3 | 3.8 |
| 8 | 100 | 3.4 | 5.1 | 3.7 |
| 6 | 110 | 3.7 | 5.6 | 4.1 |
| 7 | 110 | 3.4 | 5.2 | 3.8 |
| 8 | 110 | 3.3 | 4.9 | 3.6 |
| 6 | 125 | 3.8 | 5.6 | 4.1 |
| 7 | 125 | 3.5 | 5.2 | 3.8 |
| 8 | 125 | 3.3 | 5 | 3.6 |

a. These consumption rates are based on similar volumes of feed rates to those used for the “typical” abrasive. (A typical mineral abrasive is one with a bulk density of 100 Lbs per Cubic Foot, an example is a mineral sand).

b. The consumption and productivity figures given are for a “typical” mineral abrasive. This will have a bulk density of around 100 pounds per cubic foot.

Table 3: Recyclable Abrasive Consumption Data Table 3132RCP (See Note ^a)

| Operating Conditions | | Production Rate | Consumption Rates - Pounds Per Hour | | | Abrasive Used Per Square Foot of Cleaning | | |
|----------------------|--------------------------|-----------------|-------------------------------------|--------|----------------|---|--------|----------------|
| Nozzle Size | Pressure at Nozzle - PSI | | Steel | Garnet | Aluminum Oxide | Steel | Garnet | Aluminum Oxide |
| Without Recycling | | | | | | | | |
| 6 | 90 | 270 | 3347 | 1482 | 1865 | 12.4 | 5.5 | 6.9 |
| 8 | 90 | 410 | 5905 | 2615 | 3290 | 10.9 | 4.8 | 6.1 |
| 6 | 100 | 540 | 3665 | 1623 | 2042 | 12.2 | 5.4 | 6.8 |
| 8 | 100 | 300 | 6440 | 2852 | 3588 | 10.7 | 4.8 | 6 |
| 6 | 110 | 450 | 3901 | 1728 | 2173 | 11.9 | 5.3 | 6.6 |
| 8 | 110 | 600 | 6885 | 3049 | 3836 | 10.5 | 4.6 | 5.8 |
| 6 | 125 | 330 | 4432 | 1963 | 2469 | 11.9 | 5.3 | 6.7 |
| 8 | 125 | 490 | 7824 | 3465 | 4359 | 10.5 | 4.7 | 5.9 |
| With Recycling | | | | | | | | |
| 6 | 90 | 33 | 296 | 224 | 0.1 | 1.1 | 0.8 | 6.9 |
| 8 | 90 | 59 | 523 | 395 | 0.1 | 1 | 0.7 | 6.1 |
| 6 | 100 | 37 | 325 | 245 | 0.1 | 1.1 | 0.8 | 6.8 |
| 8 | 100 | 64 | 570 | 431 | 0.1 | 1 | 0.7 | 6 |
| 6 | 110 | 39 | 346 | 261 | 0.1 | 1.1 | 0.8 | 6.6 |
| 8 | 110 | 69 | 610 | 460 | 0.1 | 0.9 | 0.7 | 5.8 |
| 6 | 125 | 44 | 393 | 296 | 0.1 | 1.1 | 0.8 | 6.7 |
| 8 | 125 | 78 | 693 | 523 | 0.1 | 0.9 | 0.7 | 5.9 |

a. Top half of table shows use of recycled abrasive in raw terms - without use of recycling. Bottom half of table shows the benefits of recycling on consumption rates.

Step 9: If needed, Identify Alternative Method for Control of Dust Emissions

Shipyards are under increasing pressure to minimize emissions from abrasive blasting. This often involves the use of alternative means of surface preparation. It is rare for an alternative method of cleaning to have identical productivity with open air abrasive blasting. Often the alternative method reduces productivity.

To limit the number of tables shown, the impact of the particular environmental constraint is given in the form of a modification factor caused by your response to the challenge of meeting

environmental regulations. This choice of an alternate preparation method is often termed an “engineering control.”

Recycling is not the only way to work within environmental constraints. Sometimes an alternative method of preparation is used to limit dust emissions. Based on industry and shipyard reports, the following methods are used to control dust emissions from abrasive blasting.

Table 4: Production Rate Modifiers when Meeting Environmental Regulatory Constraints

| Engineering Control | Production Rate Modifier | Abrasive Selection Impact | Other Comments |
|--|--------------------------|--|---|
| Open Air Abrasive Blasting (standard) | 1.0 | Typically Mineral Abrasives Chosen | Default Method |
| Wet Abrasive Blasting | 0.75 | Cannot Use Metallic Abrasives | Clean up needed, Flash Rusting Likely |
| Low Volume Water Slurry Blasting | 0.85 | Cannot Use Metallic Abrasives | Lower Clean-Up, Flash Rusting Limited |
| Vacuum Blasting | 0.1 - 0.2 | Recyclable Abrasives Preferred | Equipment Heavy, Production Rate Falls Off with Time |
| High Pressure Water Jetting (>25,000 psig) | 0.25 | Abrasive Injection Rare | No Profile Production |
| Vacuum Assisted SSPC-SP 11 Cleaning | 0.15 | Media described in specification. | Limited Range of Profile, Productivity Falls Off with Time. |
| Recycling with Containment | 0.6 | Use The Tables for Recycled Abrasives (e.g. 3132 RCP | Modifier Reflects Moving and Placing Containment |

To see the impact of these modifiers you take the productivity estimate from a chosen table and multiply it by the factor found in the second column of Table 4, above.

Step 10: Describe Impact of Work Location and Elevation

Where the work is done can have two types of impact. First, there is the impact on operating conditions caused by location. Second, there is a direct impact on production rates based on the location within or on the vessel being cleaned.

A typical example of a work location modifying operating conditions is when the surface is elevated. Since the production rates given in the table are based on pressure at the nozzle, factors that lower this pressure also lower production rates. Production rates decrease with long runs of blast hoses needed to reach elevated areas, because of the lower pressures at the nozzle. Increasing the pressure at the compressor or increasing the hose diameter and volume of air can compensate for the loss of pressure at the nozzle.

Typical pressure losses are shown in Table 5 on page 14 for various nozzle pressures and flow rates of compressed air.

Table 5: Example of Pressure Loss for a 50 ft long 1-Inch diameter Hose Section (See Note ^a)

| Air Volume (cfm) | Line Pressure (psig) | | | | | | | |
|------------------|----------------------|-----|-----|-----|-----|-----|-----|-----|
| | 60 | 80 | 90 | 100 | 120 | 150 | 200 | 300 |
| 120 | 2.7 | 2.1 | | | | | | |
| 150 | 4.1 | 3.2 | 2.7 | 2.3 | | | | |
| 180 | 5.8 | 4.6 | 3.8 | 3.2 | 2.6 | 2.0 | 1.3 | |
| 210 | 7.7 | 6.1 | 4.0 | 4.3 | 3.5 | 2.7 | 1.8 | |
| 240 | | 7.9 | 6.5 | 5.5 | 4.5 | 3.4 | 2.3 | |
| 270 | | 9.8 | 8.1 | 6.9 | 5.6 | 4.3 | 2.9 | |

a. Abstracted from Seavey, M., JPCL, July, 1985

Typical location modifiers are shown below in Table 6 on page 15.

You should multiply the environmental modifier from Step 9: *and* the location modifiers from Step 10: together to estimate the full impact on productivity and your process. Consider the use of wet abrasive blasting on hull cleaning above 75 feet elevation for which basic productivity is estimated as 266 square feet per hour. The modified production rate is 266×0.75 (The modifier for wet abrasive blasting) $\times 0.50$ (the modifier for working in elevated areas) square feet per hour, or 100 square feet per hour.

Step 11: Estimate Total Waste Production

An important cost element in surface preparation is the cost of waste disposal. Take the consumption rate found for your operating conditions (e.g, from Table 3132CC), and multiply it by the total number of square feet to be cleaned. Dividing the result by 2000 gives the number of estimated total waste production.

Table 6: Production Rate Modifiers Based on Work Location

| Location | Production Modifier |
|---|----------------------------|
| Hull Section - Easily Reached | 1 |
| Complex Steel Shape - Less than 25ft Elevation | 0.75 |
| Hull Section - 26-75 Feet High | 0.75 |
| Complex Steel 26-75 Feet High | 0.75 |
| Hull Section 76-150 Feet High | 0.50 |
| Complex Steel 76-150 Feet High | 0.50 |
| Interior Tank Space - Little Structural Steel | 0.50 |
| Interior Tank Space - Complex Structural Shapes | 0.25 |

3. Using Guide to Estimate Costs for a Specific Task

The previous steps in the model enabled users to estimate production rates and abrasive consumption rates. Cost estimation begins with the estimate of production rate (P in ft^2/hr) and consumption rate (C in pounds per hour).

A. Information Needed for Cost Modeling

The following added information is needed to provide a reliable number for the cost of blast cleaning operations:

- Area to be blast cleaned in square feet, (A).
- Average number of hours per shift spent setting up equipment and staging for a work area ($H1$).
- Length of each shift ($H2$).
- Number of people per shift performing blast cleaning, ($N1$).
- Number of people per shift tending blast cleaning equipment, ($N2$).
- Number of shifts in each work-day ($N3$).
- Cost of the abrasive (typically in dollars per ton), ($M1$).
- Cost of labor (labor rates, including all taxes and overheads - $\$/\text{hr}$.) ($M2$)¹
- Cost ($\$/\text{hr}$) of equipment operation, ($M3$)
- Cost ($\$/\text{hr}$) of consumable equipment, (nozzles, hoses etc.), ($M4$)
- Waste disposal cost ($\$/\text{Ton}$) (if a waste is hazardous also include the cost ($\$/\text{Ton}$) of waste treatment prior to disposal), ($M5$)

B. Quantities Computed By The Cost Model

The model computes the following quantities:

- ($H3$) -- Maximum hours available for surface preparation.
- ($N4$) -- Number of shifts used to complete a task.
- ($N5$) -- Total number of expended labor hours.
- ($N6$) -- Total number of hours of equipment operation.
- ($M6$) -- Total labor cost for surface preparation.
- ($M7$) -- Total cost of equipment operation.
- ($N8$) -- Number of tons of abrasive used.
- ($M8$) -- Total cost of abrasive used.
- ($M9$) -- Total costs for consumable equipment.
- ($M10$) -- Total costs for waste disposal.

The details of the computations are given in Appendix 5.

C. Example of Use of the Cost Model

The following example illustrates the cost estimating process for a job in which there is only one eight hour shift per day. Set-up or close-down equipment takes 1.5 hours of the shift.

The values used for the various factors are:

- (A) -- Size of area to be blasted in square feet, $50,000 \text{ ft}^2$
- ($H1$) -- Average number of hours spent setting up equipment and staging for a work area per shift, 1.5 hours.

1. Note that this assumes a constant labor rate for blasters and support personnel.

- (H2) -- Length of each shift, eight hours per shift.
- (N1) -- Number of people performing blasting in each shift, 2 blasters per shift.
- (N2) -- Number of people tending blasting equipment, one tender per shift.
- (N3) -- Number of shifts in each work-day, one shift per day.
- (M1) -- Abrasive cost (typically in dollars per ton), \$100 per ton.
- (M2) -- Labor cost (fully burdened labor rates - \$/hr), \$40 per hour.
- (M3) -- Equipment operation cost (\$/hr), \$45 per hour.
- (M4) -- Consumable equipment cost, nozzles, hoses etc. - \$/hr), \$3.00 per hour.
- (M5) -- Waste disposal cost - \$/ton), (M5), \$30 per ton.
- In this example, the productivity estimate (P) is 250 ft² per hour and the estimated consumption rate (C) is 2,000 lbs/hr.

Using the equations shown in Appendix 5, the following costs are computed:

- M6 (Total labor cost of surface preparation) = \$15,360;
- M7 (Total cost of equipment operation) = \$5,760;
- M8 (Total cost of abrasive used) = \$20,000;
- M9 (Total costs for consumable equipment) = \$600, and
- M10 (Total costs for waste disposal) = \$6,000.

Thus, using equation 12 in Appendix 5, our cost in dollars for this surface preparation task is:

$$M11 = 15,360 + 5,760 + 20,000 + 600 + 6,000 = 47,720 \quad (1)$$

This gives a cost per square foot of \$0.95(4) for this surface preparation task.

4. Comparing Productivity and Consumption Data with Shipyard Data

Shipyards may wish to compare their data on productivity and consumption with that given in the guide's tables. This can help in benchmarking performance. It is important that data collected by shipyards be comparable with that in the guide.

To help shipyards obtain uniform and repeatable data guidance is given on such factors as:

- Evaluating shipyard blast cleaning operations;
- Determining the effectiveness of existing blast operations;
- Characterization of abrasive used (size distribution, measuring consumption, etc.), and;
- Describing achieved surface quality (cleanliness and profile).

This will improve the validity of comparisons made between tabulated and production data.

The guide contains productivity and abrasive use rate based on information obtained from two sources:

- Data obtained from the technical literature, and;
- Data obtained from shipyard paint departments or abrasive manufacturers.

The data shown in the tables is a "consensus" of the data from these sources.

Individual use rates for abrasive may vary from those shown in the tables. Your production rate may be higher or lower than that seen in the tables. We suggest two ways to use these differences in information.

First, users of the guide can use the given rates for productivity and abrasive use rates to provide a benchmark for measuring how well their process is running.

Second, there are blank versions of the productivity and consumption rate tables provided. These enable users of the guide to record their own productivity and consumption rate information. The resulting tables may aid you in following changes to the productivity of your process.

A. Evaluating Shipyard Blast Cleaning Operations

The user can compare actual productivity and consumption rates with those predicted by the model. Some of the key requirements involved in making such a comparison are described below.

A.1 Define Task and Operating Conditions

- Note the original condition of the steel.
- Note the finished condition of the steel.
- Note whether the coating is hard (like an epoxy), or soft (like a vinyl).
- Identify the abrasive type.
- Note the achieved profile and compare it with the range values for Low, (between 1.5 to 2.5 mils), Medium, (between 2.5 to 4.0 mils), and High Profile, (over 4.0 mils).
- Measure and record pressure at the nozzle.
- Measure and record nozzle size.

A.2 Determine production rates

- Measure and record both the area cleaned (A) and duration (D) of actual blasting activity - "peak productivity."
- Measure and record the time spent (T) tending the blasting pots, staging the work areas, and other non-productive support activities.
- Compute production rate for blasting (A/D).
- Compute overall production rate (A/{D+T}).

A.3 Determine consumption rates

There are three methods recommended for determining consumption rates. One method for estimating consumption rates is to weigh a blasting pot before and after a known period of blasting. A second method is to collect a sample of abrasive dispensed over a known period of time and then weigh the collected abrasive. This second method is preferred for making measurements of consumption rates when abrasive flow is optimized. The third method is to count the number of bags of abrasive added to the hopper during the surface preparation task.

B. Determining Effectiveness of Existing Blast Operations

B.1 Determine Theoretical Production and Consumption Rates

Using the model determine the theoretical production and consumption rates, (Step 1 on page 7 through Step 7 on page 9). Use the same parameters as identified in section Section A.1, page 18, above.

Begin by using Steps 1 through 4 to create the initial task description. This will yield the task code.

- Step 1: Type of surface - Thin paint or rusted thin paint, code number 3;
 - Step 2: Coating hardness - Hard coating (such as an epoxy), code number 1;
 - Step 3: Degree of cleaning required - SSPC-SP 6 "Commercial Blast Cleaning," code number 3, and;
 - Step 4: Profile range required - between 2.5 and 4.0 mils, (medium profile,) code number 2.
- This yields a task code of 3132.

In Step 5 choose the Data Table carrying the 3132 code, (as shown in Table 1 on page 10).

In Step 6 choose the particular operating conditions of pressure at nozzle and nozzle size which were used for the surface preparation task. This will give the theoretical production and consumption rates for a single use abrasive with a bulk density of 100 lbs per ft³. For instance, from Table 1, a choice of number 7 nozzle size and a pressure at the nozzle of 100 psi gives a production rate of 450 ft²/hr and a median consumption rate of 1,584 lbs/hr.

In Step 7 decide which specific abrasive to use in this task. To do this consult Data Table 3132 CC, part of which is shown in Table 2 on page 11, for your consumption rate information. Note that more than one choice of abrasive is given. If a coal furnace slag is the chosen abrasive the consumption rates become 1,728 lbs/hr. In this example production rate is assumed to remain constant.

B.2 Compare Theoretical and Actual Rates

Compare the two sets of rates to determine the relative effectiveness of the shipyard operation. If your actual consumption rate is higher than the theoretical figure, or the production rate is lower you may want to consider a change to the surface preparation process.

C. Options for Process Changes

A comparison of theoretical and actual rates may suggest a need to improve your surface preparation process. This section describes some simple steps which can improve production rates and reduce consumption of abrasive.

The process changes are divided into changes which improve consumption rates, and changes which improve production rates.

C.1 Process Changes that Improve Consumption Rates

Examples of process changes that can improve consumption rates include:

- Reducing the abrasive flow rate;
- Checking nozzle for wear, and;
- Maintaining the abrasive working mix.

C.1.1 Reducing Abrasive Flow Rate

Abrasive flow rate is often judged visually by the abrasive blaster. A typical rule of thumb is that the flow rate is choked back till the flow from the nozzle has the appearance of a blue flame. This qualitative check on abrasive flow rate does not always give the lowest flow rate needed to effectively perform the surface preparation task.

Sometimes it is difficult to maintain control of abrasive flow because of wear on the flow valve. Regular maintenance of the flow valve can help maintain tight control on abrasive flow.

Upgrading the flow valve can yield marked improvements.

There are abrasive flow valves available on the market which will meter abrasive flow more carefully. They are called micro-flow valves. These valves replace the older valve designs, which are less easy to control. The trick is to use such a fine control valve to reduce abrasive flow to the point where acceptable production is maintained. An NSRP study (NSRP Project 3-93-6) indicates the use of improved flow control valves can reduce abrasive consumption by 25% or more, without impairing production rates.

In summary, to reduce abrasive flow rate:

- Check that actual flow rate is the lowest needed for productive cleaning;
- Check the abrasive flow valve for wear, replace if required, and;
- Consider using micro-flow valve.

C.1.2 Checking the Nozzle for Wear

The internal diameter of the blast nozzle increases with use. The larger the diameter of the nozzle, the greater the flow rate of abrasive needed to maintain the expected blue flame appearance. An increased nozzle diameter resulting from wear will have some of the effect of changing from a smaller to a larger nozzle. As noted in paragraph C.2.3 on page 21, though production rates may increase, it is not an optimized production rate that results.

C.1.3 Maintaining the Abrasive Working Mix

An indirect cause of increased consumption of abrasive is poor working mix maintenance. The working mix of an abrasive is the ratio of abrasive particles, sorted by size. There should always be a reasonable proportion of smaller size particles, along with larger particles needed to achieve profile requirements.

If there is too high a proportion of large particles in the working mix the blaster might increase flow rate to compensate. Maintaining abrasive working mix reduces the likelihood that in process changes to flow rate will occur. The blaster will observe rapid, easy cleaning of the surface.

C.2 Process Changes that Improve Production Rates

Examples of process changes that can improve production rates include:

- Maintaining the abrasive working mix;
- Checking pressure at the nozzle;
- Checking the nozzle for wear.

C.2.1 Maintaining the Abrasive Working Mix

As noted above, poor maintenance of abrasive working mix can reduce production rates. The working mix of an abrasive should always contain a reasonable proportion of smaller size particles, along with larger particles needed to achieve profile requirements.

The smaller abrasive particles are the key to improved productivity. A known weight of smaller abrasive particles performs more cleaning work than the same weight of larger abrasive particles. If production rates fall off during cleaning you should determine whether your working mix is well balanced.

C.2.2 Checking the Pressure at the Nozzle

Check pressure at the nozzle frequently, and when production rates fall off. In many shipyards the same air supply is used for blasting work and other tasks. Several blasters might use a central compressed air supply. Was the initial reading of pressure at the nozzle made with the same number of users drawing from the compressed air supply? If not, the actual pressure at the nozzle will change during the surface preparation task.

There are two important points that come from knowing the real pressure at the nozzle.

First, you can determine the range of pressures at the nozzle available to the blaster. The high point in the range is when the blaster is the only user of the compressed air supply. The low point occurs when the compressed air supply is working with full demand from other operations. If the expected production rate at the low point of this range is unacceptable then this is a warning that adding compressed air capacity is called for.

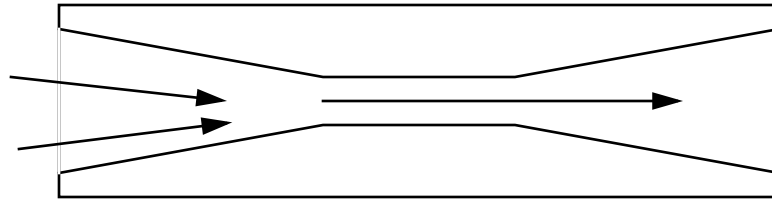
Second, by taking more frequent readings of pressure at the nozzle you can correctly estimate the theoretical production rate. Your lower than expected production rate might actually be all you can achieve.

C.2.3 Checking the Nozzle for Wear

A new abrasive blast nozzle is shaped inside to focus the stream of abrasive, see Figure 2 on page 22. This helps the abrasive flow from the nozzle maintain energy, improving its effectiveness. A worn nozzle reduces the focussing of the abrasive stream. There is greater internal scattering of abrasive particles before they exit the nozzle. There is also a less uniform stream of particles from the nozzle. As a result, the productivity of the abrasive is reduced.

A worn nozzle can appear to increase production rate. This occurs if the blaster compensates for the worn nozzle by increasing flow rate to restore the expected appearance of a blue flame at the throat of the blast nozzle. For the reasons described above, this is not an optimized production rate.

Figure: 2Example of Blast Nozzle Internal Shape



5. Overview of Abrasives Used at Shipyards

This section describes the properties of several classes of abrasive including mineral abrasives, recyclable abrasives, organic abrasives and specialty abrasives. Information is given on typical uses of abrasives in a shipyard setting, the suitability of abrasives to these typical tasks, and how abrasives are bought and used. Our aim in this section is to allow a user to make an early determination of the types of abrasive material most suited to typical shipyard surface preparation tasks. Alternatives to abrasive blasting are also briefly discussed.

A. Types of Abrasives

There are several ways to classify the types of abrasive commonly used in a shipyard setting. Material chemistry, material name, or material type and utility are all used by specifiers and/or manufacturers. For the purpose of this discussion we will be describing the properties of abrasives grouped according to the following types:

- Type I Metallic Abrasives - Sub-Divided into Grit and Shot.
 - Type II Mineral Abrasives.
 - Type III Recyclable Mineral Abrasives.
 - Type IV Organic Media - Most commonly organic agricultural by-products.
- Special Use Abrasives or Processes:
- Type V Plastic pellets.
 - Type VI Sponge encapsulated abrasive.
 - Type VII Sodium bicarbonate slurry.
 - Type VIII Carbon dioxide pellets.

A.1 Properties of Metallic Abrasives

Steel shot and grit are among the most widely used abrasives for cleaning steel.^{1, 2} Angular steel grit provides a more angular profile that results in a tighter bonding of coatings. Typically, however, a mixture of shot and grit are used to produce the desired profile. As metallic abrasives break down, additional grit is added to the recycled abrasive. The principal concern with the use of steel shot is that the rounded shot peens (compresses) the surface to remove rust and scale. This produces a shallower, more rounded profile with lower bonding of a coating. For the purposes of this guide, metallic abrasives are identified as Type I abrasives.

A.2 Properties of Mineral Abrasives

The U.S. Navy has issued military specification MIL-A-22262 on abrasives for ship hulls.³ It includes two types of abrasives. One consists of inorganic materials (e.g., minerals and slags), and the other consists of organic materials (e.g., walnut shells). There is no classification according to particle size, instead, this is designated by the purchaser. SSPC-AB 1 is also a specification for mineral and slag abrasives.⁴ For the purposes of this guide, general use mineral abrasives are iden-

1. Giese II, J.A., Hogeland, R., and Sloan, R., N., JPCL Problem Solving Forum, July, 1989.

2. Cathcart, W., P., "Improving Productivity of Steel Grit Blasting", JPCL, Maintenance Tips, January, 1989, pp. 160-164.

3. Appleman, B., R., Navy Issues MIL-A-22262A on Abrasives for Ship Hulls", JPCL, Specification Review, May, 1987.

4. SSPC-AB 1 "Specification for Mineral and Slag Abrasives" 1991.

tified as Type II abrasives.

A.3 Properties of Recyclable Media

Recyclable media possess one simple characteristic which is that a significant portion of the media retains its shape and size after impacting the surface being cleaned. The class of abrasive with the highest degree of size and shape retention after impact is metallic abrasives. Because metallic media is typically composed of steel shot or grit it is magnetic. This also makes separating non-magnetic material such as removed paint or rust quite easy. (Other common methods for cleaning recycled media include weight based separation and electrostatic cleaning). Some mineral abrasives such as silicon carbide, aluminum oxide and garnet also provide a high level of reusable material. Plastic media can also be recycled.

Recycling of media requires an additional investment in media cleaning equipment such as separators and reclaimers. Recycling of abrasive media is worth considering when the user is critically concerned about any of the following:

- Reduction in total waste volume from surface preparation.
- Control of dust and airborne debris from surface preparation.
- Reduction in material use costs for surface preparation.

Only recyclable mineral abrasives need a special identifier for this guide as Type III abrasives.

A.4 Properties of Organic (Agricultural By-Product) Media

Organic agricultural by-product such as peach-pits, walnut shells or corn cobs are used where limited coating removal is needed or to re-key a profile on an existing coating. Organic by-product media is typically single use. Being softer than mineral abrasives it is often used to conduct partial coating removal - such as in retouching of anti-fouling paint during maintenance (or new construction). Organic by-product abrasives are identified herein as Type IV abrasives.

A.5 Special Use Abrasives and Processes

There are a number of surface preparation tasks well suited to special use abrasives. In addition alternatives to traditional abrasive blasting are available for ordinary or special surface preparation tasks.

Examples of special use abrasives include:

- Plastic Pellets - Type V Abrasives;
- Sponge Encapsulated Abrasive - Type VI Abrasives;
- Sodium Bicarbonate Slurry Abrasive - Type VII Abrasives, and;
- Dry Ice Pellets - Type VIII Abrasives.

Largely, plastic pellets are reserved for fine cleaning of metal parts and partial coating removal where the media can be recycled. Plastic abrasives are mostly used on soft metal (e.g., aluminum) cleaning. This method is being used more to replace chemical treatment of non-ferrous metals. Plastic media is typically recycled when used at the preferred lower nozzle pressures. High nozzle pressures can cause excessive break down of plastic media. For the purposes of this guide, plastic pellets are Type V abrasives.

Sponge encapsulated abrasive can reduce dust emissions from abrasive blasting. The sponge surrounding the abrasive cushions the abrasive so encapsulated abrasives are often recycled. (This also helps offset the higher up-front cost of the manufactured abrasive). The sponge encapsulant is also suited for grease and oil removal operations. Reuse of the encapsulated abrasive then demands a detergent cleaning of the used abrasive. To help preserve the rubber encapsulant, and

thus increase reuse of the sponge covered abrasive, lower nozzle pressures are recommended. Sponge encapsulated abrasives are identified as Type VI abrasives.

Sodium bicarbonate slurry blasting works well for coating removal from thin gauge metals, where the production of a new surface profile is not important, and in cleaning parts that might suffer damage by entrained mineral or metallic grit (such as motor housings). Removal with sodium bicarbonate slurries is also believed to help preserve a cleaned metal surface (due to the buffering effect of trace residues of carbonate salts which slows corrosion). Sodium bicarbonate (Soda) blasting has also been used in degreasing or oil removal operations. Soda blasting requires an initial investment in new equipment for handling a slurry of the sodium bicarbonate and water. Sodium bicarbonate abrasives are classified here as Type VII abrasives.

Dry Ice pellets were introduced over ten years ago for specialty cleaning of coated and uncoated surfaces. Originally, this method was marketed to engineers interested in oil and grease removal from concrete (and then steel) surfaces. Later, the technique received renewed attention as it significantly reduces generated waste. Although some mechanical cleaning action occurs, no profile is created. Dry Ice blasting was examined in detail by the U.S. Navy. The U.S. Navy's study¹ provided a summary of the relative production rates for Dry Ice cleaning versus common methods, for a variety of cleaning and surface preparation tasks. The low production rates in coating removal, coupled with high noise levels during cleaning, have discouraged its use as an alternative technique for surface cleaning and treatment. Initial equipment costs to invest in this method are also high. Dry Ice pellets are identified here as Type VIII abrasives.

B. Suggested Abrasive Types for Typical Shipyard Surface Preparation Tasks

There is a wide variety of uncoated and coated surfaces which might be prepared for painting on a vessel. This section of the guide attempts to describe the most common of these tasks and provide suggested choices of abrasive materials typically used to clean such surfaces. These suggestions are intended to assist the users of the guide to determine the productivity and the cost information most appropriate for the planned task.

Examples of Shipyard Surface Preparation Tasks

Typical tasks requiring surface preparation or surface treatment include:

- Cleaning of New Steel Plate or Steel Shapes - Task A
- Removal of Pre-Construction Primer - Task B
- Refurbishment or Recoating of Anti-Fouling Coatings - Task C
- Total Removal of Anti-Fouling and Anti-Corrosive Hull Coatings - Task D
- Removal or Refurbishment of Existing Deck Coatings - Task E
- Removal or Refurbishment of Coatings from Interior Spaces - Task F
- Removal or Refurbishment of Coatings from Superstructure - Task G
- Removal or Refurbishment of Existing Bilge or Ballast Coatings - Task H
- Cleaning of Machinery Housings - Task I
- Cleaning of Non-ferrous Surfaces (Aluminum, Zinc) - Task J
- Weld Seam Preparation - Task K
- Degreasing or Oil Removal - Task L

For some of these tasks there is no single abrasive choice, rather a type of abrasive that is well suited.

1. Presentation made at SNAME SP3 Panel Meeting, July, 1992.

Other influences on abrasive selection may include the need to reduce waste material volume, to limit the emission of airborne dusts, or to minimize exposure to silica or trace metals from the abrasive.

Coupling Typical Tasks with Abrasive Choices

Table 7 summarizes the abrasive (or process) choices available.

Table 7: Combination of Tasks and Abrasive or Process Choices

| Task Description | Commonly Used Abrasive | Alternative Choice | Choice Based on Waste Reduction | Choice Based on Dust Control |
|---|---------------------------------|---------------------------|--|-------------------------------------|
| Cleaning of New Steel Plate or Steel Sections - Task A | Type I | Type II | Type I or Type III | AP VI |
| Removal of Pre-Construction Primer - Task B | Type II | AP II | Type I or Type III | AP II |
| Refurbishment or Recoating of Anti-Fouling Coatings - Task C | Type II | Type IV | Type III or AP II | AP II |
| Total Removal of Anti-Fouling and Anti-Corrosive Hull Coatings - Task D | Type II | Type I | Type I, Type III, AP II, or AP VI | AP II |
| Removal or Refurbishment of Existing Deck Coatings - Task E | AP I (Type I Abrasives) | Type I | AP I | AP I |
| Removal or Refurbishment of Coatings from Interior Spaces - Task F | AP III | AP IV | AP IV | AP III |
| Removal or Refurbishment of Coatings from Superstructure - Task G | Type II | Type I | Type I or Type III | AP VI |
| Removal or Refurbishment of Existing Bilge or Ballast Coatings - Task H | Type II | Type I | AP II | AP V |
| Cleaning of Machinery Housings - Task I | AP III | Type VI or VII | Type VI or AP IV | AP III |
| Cleaning of Non-ferrous Surfaces (Aluminum, Zinc) - Task J | Type IV | Type V | Type VII | AP II |
| Weld Seam Preparation - Task K | Type II | AP III or IV | AP V | AP V |
| Degreasing or Oil Removal - Task L | None - SSPC-SP 1 Cleaning Used. | Type VI or Type VII | Type VI or Type VII | Type VII |

The choices are made based on the following classifications:

- Most commonly used abrasive or abrasive type.
- Suggested alternative abrasive or abrasive type.
- Suggested type or process if waste reduction is a requirement.
- Suggested type or process if dust control is a requirement.

The table identifies these tasks according to the alphabetic codes given in “Examples of Shipyard Surface Preparation Tasks” on page 25. The types of abrasive correspond to those given in “Types of Abrasives” on page 23.

Using the Model with Pre-Selected Abrasives

In the database application model, the user is given the opportunity to make a preliminary selection of an abrasive type. To do so, they select the description most closely matching their task from a scrolling list.

The database application will then store that information, along with the commonly used abrasive type, suggested alternate materials and choices for reducing waste volume or dust emissions. This set of choices can be narrowed by users through selection from a scrolling list, or users can elect to make their final selection of abrasive during Step 7: “Do You Wish to Compare With Other Disposable Abrasives?”. This process is shown in Figure 1 on page 5 of this guide.

In the written form of this guide, the process still occurs at Step 7: on page 9, but instead the user of the guide is led to a table with all abrasives shown. The user of the guide has the option to review all the data in the table and make a choice of a suitable abrasive.

C. Alternatives to Abrasive Blasting

The marine industry is always examining alternatives to abrasive blasting. For the majority of tasks, abrasive blasting of one type or another remains the optimum method of choice. It combines the benefits of cost effective equipment investment, high productivity and strong operator familiarity. Alternatives do exist which have begun to make significant inroads on abrasive blasting for specific tasks.

Suggested alternate processes include:

- AP I - Portable rotary wheel blasting.
- AP II - High pressure water jetting.
- AP III - Power tool cleaning, without vacuum recovery of dust.
- AP IV - Power tool cleaning, with vacuum recovery of dust.
- AP V - Vacuum abrasive blasting.
- AP VI - Wet abrasive blasting.

The oldest of these alternative methods is the use of portable rotary wheel blasting equipment. The dominant use for this method (which depends on recycled metallic shot) is in cleaning of deck surfaces prior to placement of anti-skid coatings. This is identified for this guide as Alternate Process I (AP I). A newer entry is High Pressure Water Jetting (HPWJ), identified as Alternate Process II (AP II). This method has become a strong competitor for abrasive blasting at lower pressures with mineral or organic by-product media when performing refinishing of anti-fouling coatings on the hulls of vessels. There have even been studies made of the use of HPWJ in refurbishment of bilge and ballast tank spaces. HPWJ has the ability to significantly reduce solid waste volumes. HPWJ will not create a significant profile on the metal surface (nor will it remove existing profiles). There is considerable education required to easily accept HPWJ cleaned surfaces for

painting, because they look very different from abrasive blast cleaned surfaces. It is argued by HPWJ cleaning proponents that the process gives a chemically cleaner surface than that created by solid media. The HPWJ cleaned steel is subject to flash rusting. Some coating products show poorer performance when applied to a surface that has flash rusting. Other coating products perform well on a flash rusted surface. The compatibility between the coating and the flash rusted surface should be checked with the coating manufacturer. Use of inhibitors to retard flash rusting is less widely accepted by coating manufacturers.

For some tasks involving the cleaning of interior spaces or delicate machinery, the use of power tools (with, AP III, or without, AP IV, vacuum recovery of waste products) is most common. Finally, it is always possible to use abrasive blasting in conjunction with vacuum recovery of media, this is identified as AP V, or with water injection to suppress dust, AP VI. These are included in Table 7 on page 26 based on their suitability for the various surface preparation tasks.

6. Other Factors Affecting Abrasive Selection and Use

The decision process above allows you to compare one abrasive with another to see which one provides improved productivity or reduced consumption rates. You will also have to take into account other factors from your work process before making a final decision

A. Generic Abrasive Type

Some processes demand the use of a specific type of abrasive. Surfaces for thermal spraying of metals often demand a manufactured abrasive such as aluminum oxide. Cleaning of metal in a blasting room is well suited to the use of a metallic abrasive which can be reused.

B. Geographic Location

Many abrasives come from naturally occurring deposits or are by-products of local industrial processes. Procuring an abrasive from a local supplier reduces transportation costs.

C. Qualification Lists

Other constraints are imposed by customer specifications. A particular abrasive batch may not pass the requirements of a U.S. Navy or commercial specification for the product. Developing a list of Qualified Products and their suppliers will simplify the procurement process.

D. Estimated Quantity of Abrasive for Specific job or General Use.

The base rates and modification factors given earlier will enable you to develop an estimate for the quantity of material needed. Total abrasive consumption is given by the consumption rate per hour multiplied by the total number of hours required for surface preparation. Knowing the size of the area to be blast cleaned, total time for cleaning is given by area divided by the modified production rate. For instance, from Table 1 on page 10, with a number 8 nozzle at 100 psi, median productivity is 600 sq. ft., per hour. A job to clean 50,000 sq. ft. demands just over 83 hours. Table 1 on page 10 gives us the consumption rate in lbs of abrasive per hour. For the given operating conditions, this is just over one ton (2,000 lbs) of abrasive per hour. So our example task will need around eighty-three tons of mineral abrasive.

E. Determining Relevant Regulations

Your abrasive choice or blasting process may be influenced by local environmental or health regulations. You may have to use a recyclable abrasive, or reduce waste volumes. This can affect your abrasive material costs, and costs for waste disposal.

F. Estimated Cost for Purchase/Disposal

Typical relative costs for some abrasives are given in Table 8 on page 30. The cost for disposal depends on whether the waste product contains hazardous listed metals.

Table 8: Waagbo Data on Abrasives Used with Vacuum Blasting^a

| Abrasive Type | Hardness (Mohs or Rockwell Rc) | Bulk Density (lbs/ft. ³) | Approx. Cost Per Pound (cents) |
|----------------|--------------------------------|--------------------------------------|--------------------------------|
| Aluminum Oxide | 9.5 | 117-120 | 30-50 |
| Steel Grit | 50-60 Rc | 270 | 25 |
| Steel Grit | 45 Rc | 270 | 17-18 |
| Garnet 1 | 7.5 | 150 | 15 |
| Garnet 2 | 8-9 | 125 | 18-22 |
| Coal Slag | 7 | 90 | 5-8 |

a. McPhee, W. and Waagbo, S., "Evaluation of Abrasive Recycling Characteristics of Several Abrasives in Vacuum Blasting Equipment," SSPC 92-04 pp 37-43.

G. Quality Control on Receipt of Abrasives

There are simple quality control procedures one can use to confirm that the acquired abrasives are suited to the task. Specifically:

- Oil Content - Readily established by a simple mixing of the abrasive with water, an oily film indicates the abrasive may leave organic residues on the surface interrupting coating adhesion. A field method for this test is described in SSPC-AB 1.
- Salt Content - A simple conductivity test is defined in SSPC-AB 1, "Specification for Mineral and Slag Abrasives." Similar tests based on the mixing of abrasive with deionized water are also found in the ISO and MIL-A-22262A Specifications for Abrasives.
- Characteristic Constituents - Chiefly of concern is free silica, or certain heavy metals or copper. Obtain certification that the batch meets specification limits.
- Working Mix - this is measured in terms of sieve size distributions. Typical sieve size distributions are given in the ISO or SAE standards for metallic and mineral abrasives.

H. Importance of Surface Profile

Profile is an important attribute of the finished surface. The surface profile has two characteristics, profile depth and surface roughness (the complexity of the surface deformations created by an abrasive). The upshot of surface profile is an increased surface area for adhesion by a coating to the prepared surface.

Surface profile created by an abrasive is measured in accordance with ASTM D 4417. The most popular method for profile depth measurement involves the use of replica tape. ASTM D 4417 also allows the use of surface profile comparators. These provide an estimation of surface profile. Comparators also give an idea of the different types of roughness conditions produced by various abrasives. The type of surface profile created differs depending on the shape of the abrasive. Round abrasives (particularly metal shot) produces a peened appearance. Grits (both metallic and mineral) with angular character give an etched appearance. The differences in finished surface appearance are shown in Figure 3 through Figure 6 on page 31.

Figure: 3 Angular Jagged Appearance of Grit Blasted Surface (G25 Steel Grit)

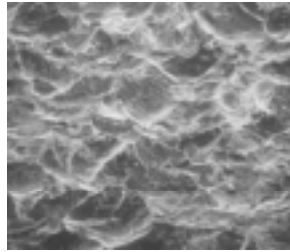


Figure: 4 Smoother Scalloped Surface From Shot Blasting (S280 Steel Shot)

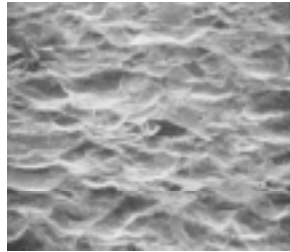


Figure: 5 Micro-Etched Appearance from Fine Mineral Abrasive (Staurolite)



Figure: 6 Surface Shading from Inclusions of Dark Mineral Grit (Coal Slag)



Profile is also important in determining the choice of the abrasive in our decision flow, (Step 4: on page 8). The selection of profile depth has effects on the choice of abrasive, on its consumption, and on its productivity. First, it steers the user to choose abrasives of appropriate sizes. Second, there are differences in abrasive consumption and productivity from smaller to larger abrasive sizes. These differences in abrasive consumption are reflected in the data in our tables. The lower the needed profile, the greater the productivity (smaller abrasives are more productive than larger abrasives, more particles doing more work). The higher the profile, the higher the amount of abrasive consumed for each square foot of cleaning.

I. Importance of Factors Used in the Guide Model

The guide uses a decision flow to determine the expected production and consumption rates for a given surface preparation task. This section discusses the influence of some of the variables chosen during the decision process leading to a Data Table on production and consumption rates.

- Effect of changing the nozzle size and the pressure at the nozzle;
- Effect of changing the abrasive;
- Effect of changing the profile requirements, and;
- Effect of changing the degree of cleaning.

I.1 Effect of changing nozzle size and pressure at the nozzle

A strong industry consensus is that the optimum blasting pressure at the nozzle is between 90 and 100 psi. Lower pressures impart less energy to the particles, which lowers productivity. Lower pressures permit finer control of cleaning and reduce the breakdown rate of abrasives. Higher nozzle pressures increase particle energy, cleaning rate and wear of the nozzles and hoses. Higher pressures will also increase operator fatigue, which may result in less productivity over an entire work shift. Increasing pressure at the nozzle by 100% doubles both the production and consumption rate.

Nozzle sizes used in shipyard operations typically range from #6 (3/8 inch) to #8 (1/2 inch) sizes. For each 1/16 inch increase in diameter of the nozzle above 1/4 inch (#4 nozzle) there is an approximate increase in blasting productivity and consumption rate of 50%.

I.2 Effect of changing the abrasive

The type of abrasive used will affect production and consumption rates. The effect of changing from one abrasive to another depends on the properties of each abrasive.

Key abrasive properties affecting consumption rates include:

- Friability - Mineral abrasives are more friable than metallic abrasives. This limits their potential for reuse and recycling. Metallic abrasives are always more easily reused than recyclable mineral abrasives. Switching from a traditional mineral abrasive to a recyclable mineral abrasive can reduce consumption rates by 60 - 70%. Switching from a mineral abrasive to a recycled metallic abrasive can reduce consumption rates by 90 - 99%.
- Abrasive density - The denser an abrasive the higher the consumption rate (measured in weight used per hour). Abrasive density will not result in a higher volume of abrasive consumption. The relationship between abrasive density and consumption rate is linear.

The key abrasive characteristic affecting abrasive production rate is abrasive size. Abrasives with a higher proportion of small particles perform more work than those with a higher proportion of larger particles. Thus, less of the smaller particle abrasive is needed to do the same amount of work. A working mix of abrasive contains a range of particle sizes. Working mixes are created to achieve the desired profile requirements. There is a 30% decrease in the production rate when one goes from a low profile working mix to a medium profile working mix. Going from a medium profile mix to a high profile mix will cause a 50% drop in production rates.

I.3 Effect of changing profile requirements

The model in this guide defines three ranges of profile height. They are:

- Low Profile Range - Between 1.5 and 2.5 mils.
- Medium Profile Range - Between 2.5 and 4.0 mils
- High Profile Range - Over 4.0 mils.

Lowering profile ranges increases the production rate of surface preparation. Going from a high profile range to a low profile range can triple production rates.

I.4 Effect of changing degree of cleaning

Changing the degree of cleaning required has a dramatic impact on production rates. Cleaning rates for SSPC-SP 5 are approximately 80 - 90% of those for SSPC-SP 10 cleaning. Production rates double when going from SSPC-SP 10 to SSPC-SP 6 cleaning. There is another doubling in production rate on going from SSPC-SP 6 to SSPC-SP 7 cleaning.

Appendix 1. Major Factors Affecting Abrasive Selection and Costs

A. Factors Affecting Abrasive Selection:

The guide to selection of abrasives uses a task based approach to make an abrasive selection. This requires an understanding of the following factors.

- Condition of coating and substrate;
- Quality of surface (profile and cleanliness) required;
- Safety, health and environmental impact;
- Facility capabilities;
- Specifications, requirements and restrictions;
- Types of Abrasives;
- Productivity Estimate (square feet per hour), and;
- Consumption rate/recyclability (pounds of abrasive through nozzle, ratio of reusable material).

Based on the above criteria a suitable selection of abrasives can be made.

The task based approach will give a list of suitable abrasives. To shorten the list one can look at the costs for procuring an abrasive and the costs associated with disposal of any surface preparation waste.

B. Factors Affecting Abrasive Costs

The major factors influencing the cost of abrasive blasting include:

- The cost per ton of an abrasive. Typically metallic and manufactured abrasives are more expensive than by-product or mined mineral abrasives. The higher cost of metallic abrasives is offset by the rate of reuse. Some manufactured nonmetallic abrasives are also reusable.
- The estimated use rate of an abrasive for a surface preparation task. This differs depending on factors examined in the productivity modeling such as thickness of existing paint, pressure at nozzle, and nozzle size.
- The labor costs for a typical task. The labor rate used should be a fully burdened rate, including all applicable overheads.
- The costs for consumable equipment, such as nozzles, blast hoses, etc.
- The costs for disposal of materials. These costs will depend in part on your location and are dictated by the type of material being removed. If the coating contains heavy metals the cost could be quite high (hundreds of dollars per ton).
- The location of the task on or in a vessel. The default numbers represent the removal rates on sheets of steel plate. Removal rates from structural members, or in interior spaces will be lower, raising costs.
- The use of an alternative blasting method. The default numbers represent air abrasive blasting. Alternative methods may lower production rates.

Appendix 2. Relationships and Trade-offs in Abrasive Selections

An optimum choice of an abrasive will result in lowest abrasive material demands at the highest achievable production rates. The user is advised that there are relationships between these goals. For instance, increasing the target level of productivity will result in a larger degree of abrasive consumption. One must balance material consumption against the reduced labor cost for the surface preparation task. Some of the factors to be balanced are dictated by the operating conditions under which surface preparation is performed. Other factors are dictated by the characteristics of an abrasive material.

A. Examples of Relationships and Trends

Relationships influencing the selection of an abrasive are:

- The relationship between abrasive productivity and consumption to task costs;
- The relationship between desired surface quality and abrasive productivity;
- The relationship between initial condition and productivity, and;
- Relationship between abrasive characteristics and abrasive use.

A.1 Trends with Abrasive Productivity and Consumption

The operating conditions which influence abrasive consumption include:

- Nozzle Size - the larger the nozzle used, the greater the capacity to deliver abrasive.
- Pressure at the Nozzle - the higher the operating pressure, the greater the capacity to deliver abrasive.

The operating conditions which influence abrasive productivity include:

- Pressure at Nozzle - the greater the pressure, the higher the maximum value of square feet of surface cleaned per hour.
- Nozzle Size - the higher the nozzle diameter, at a constant pressure, the greater the volume of abrasive and the number of square feet cleaned per hour.

The desired surface quality also influences achievable productivity.

- A higher desired level of cleaning will result in a lower overall blasting productivity.

The original condition influences surface preparation productivity as follows:

- The thicker a coating film the lower the productivity of surface preparation.
- The greater the degree of rusting and pitting the lower the cleaning rate achieved.

Key relationships influenced by abrasive characteristics include:

- An abrasive with a high reuse factor (recyclable) will cost less in materials than a single use abrasive.
- An abrasive with a high reuse (recyclable) factor demands the use of higher capital cost equipment to clean and recycle.
- A harder abrasive is often subject to earlier breakdown, limiting reuse.
- A softer abrasive may have insufficient cutting power on old, thicker films.

Table 1: Trade-Offs for Abrasives of Different Hardness

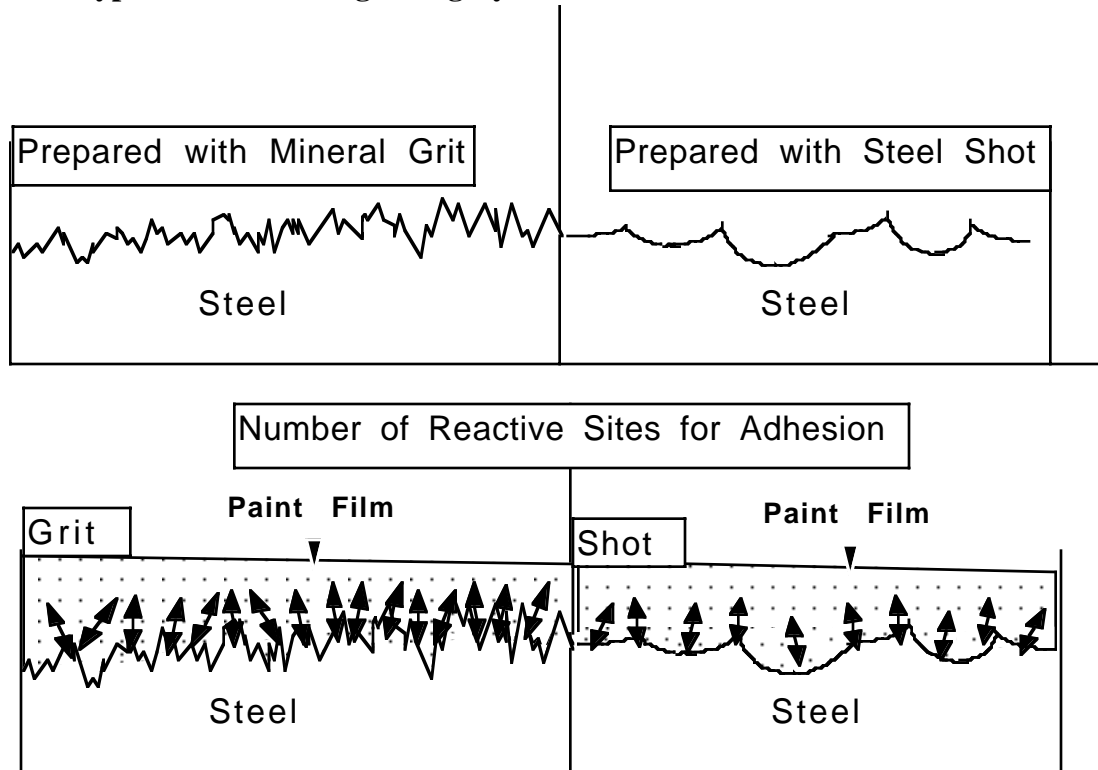
| HARD | SOFT |
|---|--|
| Suited for harder metals. | Suited for softer metals. |
| Faster cleaning | More recycles |
| Higher profile* | Less wear on equipment |
| Suited for total coating removal and surface profiling. | Suited for coating removal without damaging substrate. |

- A larger abrasive provides fewer particles impacting the surface, a smaller abrasive will greatly increase the number of total impacts increasing cleaning rate.
- A larger abrasive provides the bite needed to cut through a thick film, a smaller abrasive etches away thick films.

Appendix 3. Factors Affecting Abrasive Blast Cleaning at Shipyards

Abrasives are used in a shipyard setting for preparation of surfaces prior to coating. An abrasive will impart to a surface a mechanical roughening while removing contaminants or loose materials that interfere with coating adhesion. The diagram in Figure 1 below shows the result of this mechanical roughening process on a typical steel substrate.

Figure: 1 Typical Surface Roughening By Grit & Shot Abrasives



Abrasives provide a highly efficient method to increase adhesion and promote long coating life on new steel surfaces.

In a similar fashion abrasives may also etch an existing painted surface to improve adhesion of new coatings to existing ones.

A. Surface Preparation, Corrosion Protection and Coating Processes

Surface preparation plays a critical role in the coating process, it also provides an important measure of future corrosion prevention from a coating system.

- Surface preparation is a significant component of the total cost of a typical coating project. Upwards of one-third the cost of coating is attributable to surface preparation. Optimizing abrasive productivity can have important benefits in reducing the total coating process cost.
- The higher the quality of surface preparation the longer a coating system will provide corrosion protection to a structure or vessel. An SSPC-SP 6 “Commercial Blast Cleaning” specification provides less coating life than an SSPC-SP 10 “Near White Metal Blast Cleaning.” The benefits of SSPC-SP 5 “White Metal Blast Cleaning” over an SSPC-SP 10 cleaned surface are debatable.

- The higher the degree of surface preparation quality, the higher the cost of abrasive blast cleaning. Balancing preparation costs and coating life expectations is important. For instance, a minimum of an SSPC-SP 10 cleaning is typical before coating a surface for immersion service. Upgrading the surface preparation requirement to an SSPC-SP 5 “White Metal Cleaning” may only offer marginal improvement in service life, yet it can double preparation costs.
- Some surface preparation applications fall outside of the above examples. For example, when refurbishing existing anti-fouling paint alternative abrasives such as organic media are used. (Walnut shells, peach pits or pecan shells are examples of such organic media). The goal of organic media is to only remove loose material and lightly etch existing paint.

The guide document provides a means to understand the cost and productivity implications of abrasive blasting for surface preparation.

B. Alternatives to Abrasive Blasting

Abrasive blast cleaning (with mineral or metallic media) is only one way to prepare a surface for painting. As noted above in 3.A, specific tasks sometimes require the use of alternative media. On occasion alternatives to abrasive blasting are needed. Three examples serve to illustrate this point.

- Case 1 - Refurbishment of Anti-Fouling Coatings. One method for refurbishing anti-fouling coatings is the use of organic media to provide something close to an SSPC-SP 7 “Brush-Off Blast Cleaning” grade of surface preparation. This is still an abrasive blast cleaning process, as such it can create dusts and wastes which are difficult to control or handle. A recent technology adoption in U.S. Shipyards has been the use of high pressure water jetting. At pressures equal to or greater than 25,000 psi this process will remove loose materials from a surface. The process is “tunable” with a skilled operator, allowing removal of coatings layer by layer. This process is broadly defined in SSPC-SP 12/Nace Number 5 as a distinct series of surface preparation grades and processes.
- Case 2 - Repair or Refurbishment of Linings. An alternative to abrasive blasting for this task is the use of power tool cleaning. When only removing loose materials this falls into line with the quality requirements of SSPC-SP 3 “Power Tool Cleaning.” When used to remove all coatings from a surface and impart a profile the method yields a surface meeting the quality requirements of SSPC-SP 11 “Power Tool Cleaning to Bare Metal.”
- Case 3 - Deck Coating Removal. A common means to prepare decks is the use of portable rotary wheel blasting equipment. This uses steel shot to remove the often thick deck coatings. Use of traditional abrasive blasting methods to achieve the same end would be very time consuming.

C. How Abrasives are Used and Bought

Abrasives are purchased to meet a specific task or need. Some typical selection and use combinations are summarized Table 2 on page 39.

Table 2: Some Typical Abrasive Selection and Use Combinations

| End-Use | Typical Selection (See Notes a and b) |
|----------------------------|---|
| Anti-Fouling Refurbishment | Organic Media (Walnut Shells) |
| Deck Coating Refurbishment | Metallic Shot (grade dictated by anchor pattern requirements) |
| De-Scaling of New Plate | Mixture of Abrasives - Metallic Grit and Shot |
| Removal of Existing Paint | Mineral Grit Abrasive |

- a. Abrasives are very versatile, thus the indicated selection is for the purposes of illustration only, an alternative selection is almost always available.
- b. The grade of abrasive chosen will depend on the anchor profile requirement of the painting specification. Larger abrasives yield deeper profiles, smaller abrasives provide an etched surface which optimizes adhesion. Mixtures of larger and smaller abrasive particles are used in a "working mix" to optimize profile depth and coating adhesion.

The specific type of abrasive chosen also depends on available equipment within a shipyard. For instance, metallic grit provides economies through recycling and reuse. If the shipyard only has blasting equipment for single use abrasives, a mineral abrasive may be chosen for descaling operations.

C.1 Blast Cleaning Process

The blast cleaning process is directly impacted by the choice of abrasive. Blast cleaning process efficiency is directly influenced by the operating conditions of the blast cleaning equipment. For instance, abrasive use rates will increase with the use of larger nozzle sizes and higher pressures at the nozzle, these rates are also known to differ with the chosen abrasive, see Figure 2 on page 40 and Figure 3 on page 40.

Understanding the impact which an abrasive choice has on optimizing productivity while meeting specification requirements is key to making a good choice of abrasive.

Figure: 2 Effect of Nozzle Pressure on Productivity¹

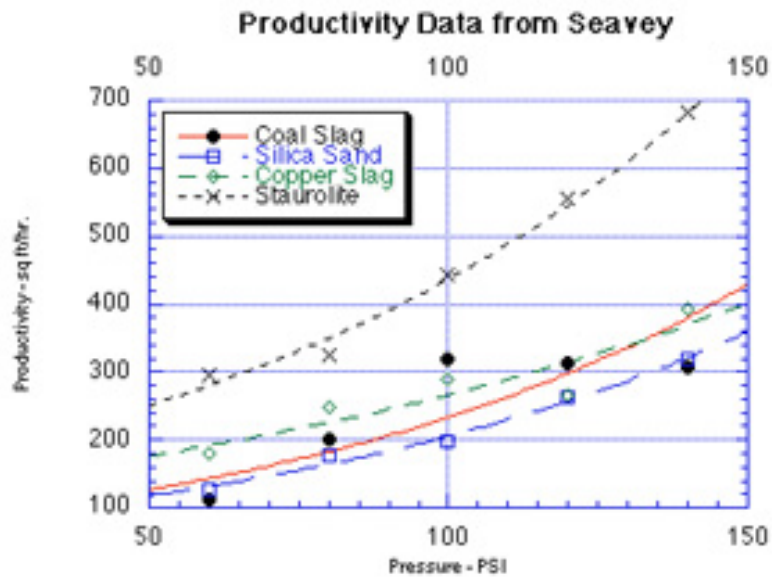
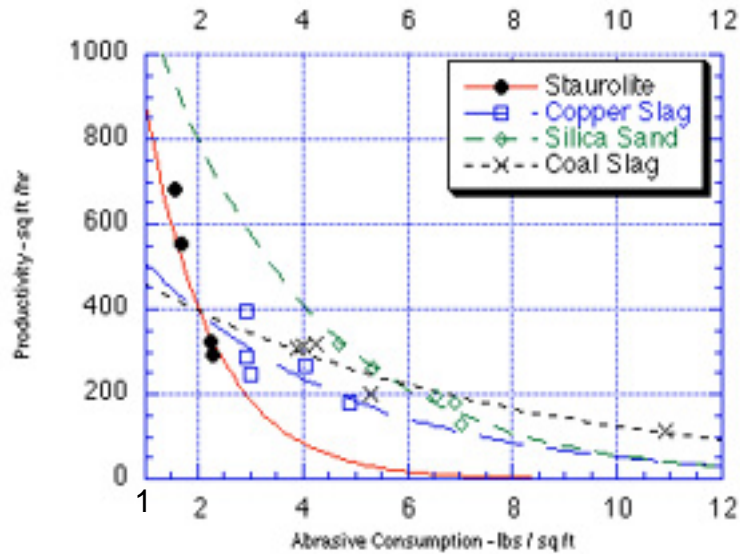


Figure: 3 Abrasive Productivity and Abrasive Use Rate¹



1. Seavey, M., "Abrasive Blasting above 100 PSI", JPCL, July, 1985, pp. 26-37.

Appendix 4. Factors Limiting the Selection of Abrasives

Sometimes the choice of abrasive is influenced by factors other than optimizing productivity. For example, health and safety can play a role in your selection. Though a mineral abrasive such as silica sand is cheap and readily available it can pose a health risk to workers. An alternative abrasive may be chosen which is low in free silica in preference to silica sand, despite increased costs. Another constraint on selection are the requirements of external specifications. Examples of such specifications include MIL-A-22262 (from the U.S. Navy), SSPC-AB 1 and AB-3 (from SSPC), and the ISO specifications - 11124 parts 1 to 10 for metallic abrasives, or 11127 for mineral abrasives.

The type of surface profile required also dictates the final choice of abrasive or abrasive working mix.

A. Impact of Abrasive Use on Shipyards

Abrasive use has a number of practical and economic impacts on a shipyard. These impacts are explored in depth within the guide. Some of the key topic areas are summarized below.

A.1 Production Rate of Coating Process

As noted earlier, in 3.A, the surface preparation process is a significant component of the overall coating process costs. Providing the most efficient means to achieve a specified level of surface cleaning will reduce the costs of coating a vessel by improving the overall rate of the coating process. Costs are also associated with other factors directly linked to surface preparation. These are enumerated below.

A.2 Waste Generation

Mineral abrasives are a popular choice for surface preparation tasks. Mineral abrasives create larger volumes of waste than metallic abrasives, even if the mineral abrasive is reusable. Waste generation can have a higher impact if the coating product removed contains heavy metals or other materials which might fail a TCLP test. This increases costs for disposal of the generated waste. Hazardous waste disposal costs can be reduced in one of two ways. Some abrasives naturally reduce leachable values in TCLP testing to below hazardous levels. Choosing an alternate method of surface preparation, such as the use of recyclable abrasives, can reduce total waste volumes.

A.3 Health and Safety for Workers and Adjacent Trades

Like many industrial processes there are inherent dangers if abrasives are unwisely used. Some abrasives may pose higher risks than others when used for surface preparation, all abrasives should be used with caution. The type of risks associated with abrasives include:

- Dust Generation - which may impair breathing, or vision.
- Hearing Loss - due to the high decibel level of many blasting operations
- Physical Damage or Injury - due to the sharp cutting action of abrasive shot at high speeds under pressure from a blasting hose.

For blasting workers correct use of work processes and the wearing of personal protective equipment can minimize these risks.

Adjacent trades may find their work made less comfortable due to the noise levels or dusts created by abrasive blasting. Painters may find work ruined if dusts or stray abrasive are allowed

to fall into new uncured coating films.

Health and safety regulations are discussed in greater detail in Appendix Appendix 6. on page 46.

A.4 Other Environmental Issues

A variety of environmental issues may impact on abrasive choice and use. The recent HAPS rules do include provisions which could reduce the use of open air abrasive blasting. This in turn may spur the adoption of alternative approaches to abrasive blasting, or the substitution of alternative methods of surface preparation.

Environmental regulations are discussed in greater detail in Appendix Appendix 6. on page 46.

A.5 Cost

Cost is always an important consideration. There are the costs of an abrasive, and the costs of using an abrasive. The guide provides a means to estimate the cost of a surface preparation process through modeling. This modeling reflects the following factors:

- The cost per ton of an abrasive;
- The estimated use rate of an abrasive for a surface preparation task;
- The labor costs for a typical task;
- The costs for consumable equipment;
- The costs for disposal of materials;
- The location of the task on or in a vessel, and;
- The use of an alternative cleaning method.

The shipyard user of this guide can use the cost approach suggested in Appendix Appendix 5. on page 43 to compare the cost of their process with estimates made using the production and consumption rates in the guide's tables. To make such a cost comparison shipyards need to collect abrasive productivity and consumption rate data in a controlled manner. Guidelines for data collection are given in Section 4. on page 18 of the guide.

Equations for use in cost modeling are shown in Appendix 5.

Appendix 5. Equations for Use in Cost Modeling

A. The Cost Modeling Equations

Cost estimation begins with the estimate of production rate (P in sq. ft./hr) and consumption rate (C in pounds per hour). The following added information is needed to provide a reliable number for the cost of blast cleaning operations:

- Area to be blast cleaned in square feet, (A).
- Average number of hours per shift spent setting up equipment and staging for a work area (H1).
- Length of each shift (H2).
- Number of people per shift performing blast cleaning, (N1).
- Number of people per shift tending blast cleaning equipment, (N2).
- Number of shifts in each work-day (N3).
- Cost of the abrasive (typically in dollars per ton), (M1).
- Cost of labor (labor rates, including all taxes and overheads - \$/hr,) (M2)¹
- Cost of (\$/hr) equipment operation, (M3)
- Cost of (\$/hr) consumable equipment, (nozzles, hoses etc.), (M4)
- Waste disposal cost (\$/Ton) (if a waste is hazardous also include the cost (\$/Ton) of waste treatment prior to disposal), (M5)

The model computes the following quantities:

- (H3) -- Maximum hours available for surface preparation.
- (N4) -- Number of shifts used to complete a task.
- (N5) -- Total number of expended labor hours.
- (N6) -- Total number of hours of equipment operation.
- (M6) -- Total labor cost for surface preparation.
- (M7) -- Total cost of equipment operation.
- (N8) -- Number of tons of abrasive used.
- (M8) -- Total cost of abrasive used.
- (M9) -- Total costs for consumable equipment.
- (M10) -- Total costs for waste disposal.

Before making the cost estimate, these numbers are used to calculate the following important data:

- Maximum hours available for surface preparation in each shift (H3):

$$H3 = H2 - H1 \quad (1)$$

- Number of shifts used to complete task (N4), for instance with only one shift per day:

$$N4 = \frac{A}{P} \div (H3 \times N1) \quad (2)$$

With more than one shift per day and one equipment set-up per shift equation 2 still applies. If there is only one equipment set up per day, but more than one shift per day then the number of required shifts (N4) becomes:

$$N4 = \frac{A}{P} \div \frac{[(H3 \times N1) + (\lfloor H2 \times N1 \rfloor \times \lfloor N3 - 1 \rfloor)]}{N3} \quad (3)$$

- Knowing the number of shifts you can then compute the total number of expended labor hours (N5):

1. Note that this assumes a constant labor rate for blasters and support personnel.

$$N5 = N4 \times \langle (N2 + N1) \times H2 \rangle \quad (4)$$

- Knowing the number of expended labor hours (N5) and the labor rate (M2) gives the total labor cost for surface preparation (M6):

$$M6 = N5 \times M2 \quad (5)$$

- The total number of hours of operation of the abrasive equipment (N6) is given by the number of shifts required (N4) times the length of each shift (H2). This assumes that equipment operation occurs at all hours of each shift, even during set-up. Thus the cost to operate the equipment (M7) is given by:

$$M7 = N6 \times M3 \quad (6)$$

If equipment operation is confined solely to hours of blasting then M7 is computed as follows:

$$M7 = \left(\frac{A}{P} \times M3 \right) + (N1) \quad (7)$$

- The number of tons of abrasive used (N8) is given by:

$$N8 = \frac{A}{P} \times \frac{C}{2000} \quad (8)$$

- The total cost of this abrasive (M8) is thus:

$$M8 = N8 \times M1 \quad (9)$$

- While the total costs for consumable equipment (M9) is given by:

$$M9 = \frac{A}{P} \times M4 \quad (10)$$

- Lastly, the total costs for waste disposal (M10) can be estimated from the number of tons of abrasive (N8), and the costs per ton for waste disposal (M5):

$$M10 = N8 \times M5 \quad (11)$$

The total estimated cost (M11) for the surface preparation task is the sum of the following cost components:

- The total labor cost (M6);
- The total equipment operation cost (M7);
- The total cost of abrasive consumed (M8);
- The total cost of equipment consumables (M9), and;
- The total costs for waste disposal (M10).

$$M11 = M6 + M7 + M8 + M9 + M10 \quad (12)$$

In the electronic version of the cost modeling utility all the needed bookkeeping is done for the user. In the text guide the user must calculate the answer to these equations.

B. Example of Use of Cost Modeling Equations

The following example illustrates the cost estimating process for a job in which there is only one shift per day of length eight hours and 1.5 hours are used to set-up equipment.

The values used for the various factors are:

- (A) -- Size of area to be blasted in square feet, 50,000 ft²
- (H1) -- Average number of hours spent setting up equipment and staging for a work area per shift, 1.5 hours.
- (H2) -- Length of each shift, eight hours per shift.
- (N1) -- Number of people performing blasting in each shift, 2 blasters per shift.
- (N2) -- Number of people tending blasting equipment, one tender per shift.
- (N3) -- Number of shifts in each work-day, one shift per day.
- (M1) -- Abrasive cost (typically in dollars per ton), \$100 per ton.

- (M2) -- Labor cost (fully burdened labor rates - \$/hr), \$40 per hour.
- (M3) -- Equipment operation cost (\$/hr), \$45 per hour.
- (M4) -- Consumable equipment cost, nozzles, hoses etc. - \$/hr), \$3.00 per hour.
- (M5) -- Waste disposal cost - \$/ton), (M5), \$30 per ton.
- In this example, the productivity estimate (P) is 250 ft² per hour and the estimated consumption rate (C) is 2,000 lbs/hr.

From this preliminary information the number of available hours per shift is given by substituting values into equation 1:

$$H3 = 8 - 1.5 = 6.5 \quad (13)$$

With only one shift per day the total number of shifts used is given by substituting values into equation 2, rounded up to the nearest whole number of shifts:

$$N4 = \frac{50000}{250} \div (6.5 \times 2) = 200 \div 6.5 \times 2 = 16 \quad (14)$$

The estimated total labor hours are then given is given by substituting values into equation 4:

$$N5 = 16 \times \langle (1 + 2) \times 8 \rangle = 384 \quad (15)$$

The estimated total labor cost is given by substituting values into equation 5:

$$M6 = 384 \times 40 = 15360 \quad (16)$$

By substituting values into equation 6 we can get an estimate of the total cost to operate the abrasive blasting equipment:

$$M7 = N4 \times H2 \times M3 = 128 \times 45 = 5760 \quad (17)$$

The number of tons of blasting abrasive is given by the following substitution into equation 8:

$$N8 = \frac{50000}{250} \times \frac{2000}{2000} = 200 \quad (18)$$

Thus from equation 9 one gets the total cost of abrasive:

$$M8 = 200 \times 100 = 20000 \quad (19)$$

The cost of consumable equipment items is obtained by substituting values into equation 10:

$$M9 = \frac{50000}{250} \times 3 = 600 \quad (20)$$

Finally, the cost to dispose of waste generated during surface preparation, using equation 11:

$$M10 = 200 \times 30 = 6000 \quad (21)$$

Thus, using equation 12, our costs for this surface preparation task are:

$$M11 = 15360 + 5760 + 20000 + 600 + 6000 = 47720 \quad (22)$$

Appendix 6. Regulatory Factors Affecting Abrasive Selection & Use

A. Assessing Health and Safety Impacts

Abrasives can create, or directly cause, health problems when used. Appropriate safety measures are needed during the use of any abrasive.

A.1 Overview of key health issues:

Many abrasives produce metallic or mineral dusts during use. Some of the dust is due to breakdown of an abrasive, other dusts are created by the breakdown of the paint materials or rust removed from the surface. There are two general threats due to dusts. First, breathable dusts can damage the lungs. Second, the components of some paints are known hazards, particularly those containing lead or other heavy metals. The fine breathable dusts made during abrasive blasting carry these toxins into the body. If the dusts are in the PM-10 category then they are considered respirable, (PM-10 is a measure of dusts of diameter less than or equal to 10 microns). Correct worker breathing protection is mandatory, improved ventilation of the working area is often required to maintain visibility.

Abrasive blasting is performed under high pressure, it propels abrasive material at high speeds through a narrow nozzle. This provides the conditions for a very noisy working area. The level of noise may easily exceed 125 dB, hearing protection is mandatory.

Abrasives travelling at high speed can quickly shred soft tissues like the human body.

A.2 Overview of Safe Use of Equipment

Pressurized blasting equipment poses its own set of safety requirements. Some safety measures are common to all blasting operations. The hoses must be of a type to prevent shocks from static electricity. Hose lengths shall be joined by metal couplings secured to the outside of the hose to avoid erosion and weakening of the couplings. Nozzles shall be attached to the hose by fittings that will prevent the nozzle from unintentionally becoming disengaged. Nozzle attachments shall be of metal and shall fit onto the hose externally. Hoses and all fittings used for abrasive blasting shall be inspected frequently to insure timely replacement before an unsafe amount of wear has occurred.

A dead man control device shall be provided at the nozzle end of the blasting hose. The dead man switch provides direct cutoff of abrasive flow, or alerts the pot tender by means of a visual and audible signal to cut off the flow. The dead man switch is vital to prevent injury if the blaster loses control of the hose. The pot tender shall be available at all times to respond immediately to the signal.

In addition to respirators, the blaster shall be protected against injury from exposure to the blast by appropriate protective clothing, including gloves. Surges from changes in pressure in the hose line can be large enough to throw the blaster off the staging. The blaster is protected by a safety belt when blasting is done from elevations where adequate protection against falling is not provided by railings.

Much of the work conducted in a shipyard setting involves staging of a work area on scaffolding or similar elevated work areas. Attendance to safety rules for tying off is mandatory when working at heights.

A.3 Health and Safety Regulations, Standards and Hazards

A.3.1 OSHA Marine Standard

The Federal Occupational Safety and Health Administration (OSHA) regulations which apply to the shipyard industry are found in 29 CFR 1915. While employers are required by law to adhere to the OSHA standards, they also provide employers with a valuable resource when developing worker health & safety programs. The comprehensive standards (such as the OSHA standard for lead, 1915.1025) provide a detailed outline for employers to follow which are proven effective in protecting workers from hazards.

The main health and safety concern when abrasive blasting is worker exposure to airborne concentrations of toxic metals such as lead and cadmium. The effect abrasive blasting has on a worker's health depends on a several factors. These factors include the presence and quantity of hazardous constituents of the coating(s) being removed and using recycled abrasive media as opposed to virgin media. Another factor which must be considered is the use of containment which concentrates contaminants in the worker's breathing zone and ultimately affects the level of personal protection required.

A.4 Standards for Airborne Toxins

A.4.1 Limits for Airborne Toxins from OSHA Shipyard Standards

Table 3 summarizes the comprehensive OSHA shipyard standards which regulate worker protection against exposure to airborne toxins.

Table 3: Summary of OSHA Shipyard Standards - Airborne Toxins

| OSHA STANDARD | AIR CONTAMINANT | PERMISSIBLE EXPOSURE LIMIT (PEL) (8)- hour time weighted average (TWA) |
|---------------|-------------------|---|
| 1915.1025 | lead | 50 ug/m ³ |
| 1915.1001 | asbestos | 0.1 fiber per cubic centimeter |
| 1915.1018 | inorganic arsenic | 10 ug/m ³ |
| 1915.1027 | cadmium | 5 ug/m ³ |

A.4.2 Lead

One of the most publicized health hazards associated with abrasive blast cleaning is that of lead exposure. In 1978, the Occupational Safety & Health Administration (OSHA) promulgated final lead standards for both general and shipyard industries. The general industry standard is identified as 29 CFR 1910.1025 "Lead" while the shipyard version of the lead standard is found in 29 CFR 1915.1025. Both standards became effective March 1, 1979.

The OSHA shipyard (29 CFR 1915.1025) requirements for lead are identical to the requirements for general industry (29 CFR 1910.1025). Both standards limit occupational exposure to lead to 50 ug/m³ (micrograms per cubic meter) based on an 8 hour time-weighted average. The basis for this action is evidence that exposure to lead must be maintained below this level to prevent material impairment of health or functional capacity to exposed employees.

Both standards contain provisions for the following items:

- Exposure monitoring;

- Methods of compliance;
- Respiratory protection;
- Protective work clothing and equipment;
- Housekeeping;
- Hygiene facilities and practices;
- Medical surveillance;
- Medical removal protection;
- Employee information and training;
- Signs;
- Record keeping, and;
- Observation of monitoring.

A.4.3 Asbestos

The OSHA shipyard standard for asbestos is found in 29 CFR 1915.1001. Asbestos has been the subject of extensive rule making by OSHA and other agencies. The operations that expose employees to asbestos are well known and thoroughly studied. While asbestos is rarely a component of coatings, asbestos may be encountered during surface preparation operations when surfaces containing asbestos are disturbed.

Asbestos is a confirmed human carcinogen and can permanently damage the lungs. The OSHA PEL for asbestos is 0.1 fiber per cubic centimeter. The effects are chronic in nature, usually 4 to 7 years of exposure are required before serious lung damage (fibrosis) results.¹

OSHA's rule making efforts for asbestos have centered on evaluating the work practices that will best reduce asbestos exposures in the specific operations that expose workers to asbestos. The result is a standard that relies heavily on mandated work practices. In most situations, these work practices will result in employee exposure well below the PEL. In effect, the mandated work practices will assure that each asbestos worker is exposed to the lowest level of asbestos for the operation that the worker is doing.

A.4.4 Inorganic arsenic

The OSHA shipyard (29 CFR 1915.1018) requirements for inorganic arsenic exposure are identical to the requirements for general industry (29 CFR 1910.1018). Exposure to airborne concentrations of inorganic arsenic may cause lung cancer, and can be a skin irritant. The OSHA permissible exposure limit for inorganic arsenic is 10 ug/m³.

A.4.5 Cadmium

The OSHA shipyard (29 CFR 1915.1027) requirements for cadmium exposure are identical to requirements for general industry (29 CFR 1910.1027). Cadmium is a metal that can adversely affect the lungs, liver, and kidneys. It may be absorbed into the body just like lead. Unlike lead, however, cadmium can also damage the lungs. The primary body organ affected is the kidney.

29 CFR 1915.1027 specifies a cadmium permissible exposure limit (PEL) of 5 ug/m³.

A.4.6 Other Air Contaminants

In addition to the comprehensive shipyard standards, OSHA has established Permissible

1. Lewis, R.J., "Hazardous Chemical Desk Reference," 2nd ed., Van Nostrand Reinhold, 1991

Exposure Limits (PELS) for several other toxic air contaminants to which workers in shipyards may potentially be exposed to when abrasive blasting. Table 4 contains a summary of PELs taken from 29 CFR 1915 TABLE Z.

Table 4: Summary of PELs from 29CFR 1915 Table Z

| SUBSTANCE | CAS NO. | mg./m ³ |
|------------------------------------|---------------------|--------------------------|
| Chromium metal | 7440-47-3 | 1 |
| Copper, dusts | 7440-50-8 | 1 |
| Magnesium | 1309-48-4 | 15 |
| Nickel, metal | 7440-02-0 | 1 |
| Tin, inorganic compounds | 7440-31-5 | 2 |
| Tin, organic compounds | 7440-31-5 | 0.1 |
| Zinc, total dust | 1314-13-2 | 15 |
| Zinc, respirable dust | 1314-13-2 | 5 |
| Mineral dusts, (see note below) | Silica, crystalline | (See Note ^a) |

- a. To calculate a PEL for crystalline silica (quartz) using the formula in Table Z-3, 1910.1000 use the formula in equation 23, where Quartz PEL is always equal to 10 mg/m³:

Define a PEL for Crystalline Silica using equation 23:

$$\frac{\text{Quartz PEL}}{\% \text{ Respirable Quartz} + 2} = \text{PEL} \quad (23)$$

Example, for a sample of respirable dust containing 13% quartz:

$$\frac{10\text{mg/m}^3}{13 + 2} = 0.67\text{mg/m}^3 \quad (24)$$

Therefore levels of quartz dust in the air that are above 0.67 mg/m³ exceed the PEL

mg/m³ = Milligrams of substance per cubic meter of air.

A.5 Health Monitoring Programs

Health monitoring programs are found in the comprehensive OSHA shipyard and general industry standards for lead, cadmium, inorganic arsenic and asbestos. Each standard includes health monitoring provisions for medical surveillance, and medical examinations. In addition to the medical surveillance, and medical examination provisions, the lead and cadmium standards contain requirements for biological monitoring and medical removal protection.

A.6 Hierarchy of Controls for Air Toxins

Each of the four (4) comprehensive shipyard standards identified above specify that employers utilize a hierarchy of control methods to reduce and maintain employee exposure below the Time Weighted Average (TWA) and/or excursion limits (PELs).

Specifically, OSHA requires that employers utilize engineering controls, work practice controls, and administrative controls to reduce and maintain employee exposures to airborne contaminants to or below the PEL, to the extent that such controls are feasible. When all feasible

engineering and work practice controls are insufficient to reduce employee exposure to or below the PEL, the employer shall supplement them by the use of respiratory protection.

The method preferred by OSHA for reducing worker exposures to airborne concentrations of hazardous dusts is by using engineering controls¹. A common engineering control is method substitution, such as substituting chemical stripping for abrasive blasting.

The second preferred method for reducing worker exposure involves using work practice control methods. Examples of work practice control methods include hygiene methods (i.e. decontamination facilities) and administrative control methods (job rotation).

The least preferred method of controlling these exposures is to use personal protective equipment (PPE). This is the control method most familiar to shipyard workers at the deckplate level. In almost all cases coating removal is carried out with the use of some type of PPE, (i.e. respirators). Even with well-designed ventilation systems in a containment in which abrasive blasting is occurring, workers will always be required to wear respiratory protective equipment. The OSHA shipyard standard governing respiratory protection is 29 CFR 1915.152. This standard defines the basic respiratory protection requirements against:

- atmospheres immediately dangerous to life;
- gaseous contaminants not immediately dangerous to life;
- particulate contaminants not immediately dangerous to life, and;
- combinations of gaseous and particulate contaminants not immediately dangerous to life.

Standard 1915.152 describes the basic respiratory protection requirements although it does not detail procedures (i.e. respiratory fit test procedure). However, 1915.152 does specify that when respirators are worn, employers are to ensure that:

- respirators are inspected, maintained, cleaned and disinfecting;
- employees are trained;
- air line respirators are fitted with a pressure regulating valve and filter;
- emergency respiratory equipment for tenders of confined spaces, and;
- respirators are used where men are working in atmospheres immediately dangerous to life or health (IDLH).

A.6.1 Confined Space Working Requirements

On October 24, 1994 OSHA published its final rule for Confined and Enclosed Spaces and Other Dangerous Atmospheres in Shipyard Employment (29 CFR 1915 subpart B parts 1915.11 through 1915.16). This standard establishes the requirements for work in explosive and other dangerous atmospheres in vessels and vessel sections. The standard applies to shipbuilding, ship repairing, shipbreaking operations, and to related employment.

The shipyard standards provide the minimum shipyard safety standards for entering and working safely in vessel tanks and compartments in shipyard employment. The shipyard confined space standard ensures that workers entering confined spaces during abrasive blasting operations are protected against the hazards associated with confined spaces. Provisions of the standard include:

- atmospheric testing;
- identifying confined space hazards through labeling;
- appropriate protective clothing and equipment;

1. U.S. Department of Labor, Occupational Safety and Health Administration, 1993, OSHA 3142:13, "Lead in Construction"

- respiratory protection;
- employees may not enter a space whose atmosphere exceeds a PEL or is DLH;
- employee training, and;
- the establishment of a shipyard rescue team.

The final rule includes requirements for a shipyard competent person, a Marine Chemist, a Certified Industrial hygienist, or a Coast Guard authorized person to evaluate conditions within a confined or enclosed space and to institute measures to ensure that entrants are protected. It also contains requirements for posting unsafe spaces, for safe performance of cleaning, cold work, and hot work, and for classifying a person as a shipyard competent person.

B. Assessment of Environmental Regulations

B.1 Resource Conservation and Recovery Act (RCRA)

There are several Acts of Congress dealing with hazardous waste. By far the most significant is the Resource Conservation and Recovery Act (RCRA). Federal regulations governing waste management began in 1965 with the passage of the Solid Waste Disposal Act. This act was amended in 1970 by the Resource Recovery Act, which was amended in 1976 by the Resource Conservation and Recovery Act (RCRA). RCRA is divided into ten subtitles. These are referred to as subtitle A through J. The two subtitles of concern to the shipyard industry are Subtitle C; *Hazardous Waste* and Subtitle D; *Solid Waste* (non-hazardous wastes). Subtitle C regulates all aspects of hazardous waste management from its generation “cradle” to its disposal “grave” and contains provisions for generators, transporters and disposal facilities. RCRA has three main goals:

- To protect human health and the environment;
- To reduce waste and to conserve energy and natural resources, and;
- To reduce or eliminate the generation of hazardous wastes as expeditiously as possible.

In 1984 Congress strengthened RCRA by passing the Hazardous Waste and Solid Waste Amendments Act (HSWA). These amendments provided specific requirements for hazardous waste management and include the following technical standards:

- landfill disposal;
- leak detection systems;
- underground storage of petroleum products and CERCLA hazardous substances (see paragraph B.4 later in this section), and;
- prohibiting specific hazardous wastes from disposal.

B.2 Clean Air Act (CAA) and Amendments

The Clean Air Act originated in 1970 and was followed by amendments in 1977 and 1990. The Clean Air Act of 1970 required the EPA to establish standards for regulating emissions of six major air pollutants into the atmosphere. The EPA responded with the National Primary and Secondary Ambient Air Quality Standards (NAAQS). The NAAQS define levels of air quality which are necessary to protect the public health. Primary standards are defined as the levels of air quality that the administrator of the EPA judges as being necessary to protect the public health. The definition of “secondary” is similar, except that it addresses the protection of public welfare from known or anticipated effects of the pollutant. The definition is the levels of air quality that the administrator of the EPA judges as being necessary to protect the public welfare from any known or anticipated effects of a pollutant. As indicated, there are six air pollutants regulated under the original Clean Air Act of 1970. The six pollutants are:

- sulfur oxides;
- particulate matter;
- carbon monoxide;
- ozone;
- nitrogen dioxides, and;
- lead.

B.2.1 Particulate Matter and Lead

Within 40 CFR Part 50, there are two sections that address specific requirements that could be invoked on lead paint removal projects.

40 CFR 50.6, "National Primary and Secondary Ambient Air Quality Standards for Particulate Matter," restricts the amount of particulate matter that can be emitted from a source within a 24-hour period. The particulate matter in this case is defined as 10 microns or less in aerodynamic diameter. This size represents the respirable fractions of particulate, is equivalent to about 0.5 mil, and is termed PM-10. Particulates can be generated even when non-lead-containing paints are removed. Containment may be needed to control emissions.

Monitoring to determine compliance with the PM-10 criteria is accomplished using high volume air samplers. The samplers are about six feet in height.

Section 40 CFR 50.12, "National Primary and Secondary Ambient Air Quality Standards for Lead," might be imposed when abrasive blast cleaning is used in the removal of lead paint. Monitoring for lead is based on collecting total suspended particulate (TSP). That is, all airborne emissions from the source are collected and analyzed, not just the dust that is 10 microns or less in size.

The National Ambient Air Quality Standards are not automatically invoked on lead paint removal projects. In fact, the use of such monitoring is the exception, rather than the rule. As the regulations are currently written, they address continuous monitoring of entire cities or regions to determine the overall air quality, as compared with the monitoring of individual, short-term projects, such as paint removal.

B.2.2 Relevant Portions of Clean Air Act Amendment

As part of the Clean Air Act Amendment of 1990, Congress added approximately 190 additional Hazardous Air Pollutants (HAPS) to the original list of 6 controlled pollutants. The HAPS list contains many of the chemicals that are commonly used as solvents on shipyard painting projects (i.e. xylene, toluene, methyl isobutyl ketone, and methyl ethyl ketone).

Facilities required to comply with the EPA HAPS regulations have more than ten tons per year of any single HAP, or more than 25 tons per year of all combined HAPS emissions. These facilities are referred to as major HAP emitting sources.

Only 25 of the U.S. shipyards qualify as major sources of HAP emissions. (There are an estimated 437 total shipyards in the United States). A major contributor to HAP emissions in shipyards are marine coatings. These may use HAP organic solvents for thinning and cleanup. Other shipyard operations using compounds which are "minor" contributors to HAP emission sources are welding, metal forming/cutting and abrasive blasting. Each of these sources contributes to the overall total when determining if a facility qualifies as a major source.

Particulate matter emissions from blasting can theoretically contribute to total HAP emissions. In a report submitted to the Environmental Protection Agency (EPA)¹ summarizing the results of a study performed at two model shipyards, HAP emission comparisons from two abra-

sive blast cleaning operations were made. One shipyard located on the east coast used black beauty as the abrasive while the other shipyard, located on the west coast, used copper slag. The results of this study indicate that the levels of HAP emissions from abrasive blasting are very minor compared to the amount of HAPs associated with paints and solvents. This report concludes that when emission rates are compared with the major source cutoffs of 10 tons per year for a single HAP, or an aggregate of 25 tons per year for all HAPs, emissions of HAPs from abrasive blast cleaning operations appears insignificant.

B.3 Clean Water Act

In 1972 Congress passed the Federal Water Pollution Control Act. With the passage of this act Congress initiated a national approach to meet the goal of “fishable and swimmable” waterways. In 1977 this act was amended and renamed the Clean Water Act (CWA). The 1977 amendments increased controls on toxic pollutants. In 1987 Congress passed an amendment to include an additional 129 specific toxic pollutants.

The Clean Water Act regulations are found in 40 CFR Subchapter D, “Water Programs,” and encompass parts 100 through 149. The Clean Water Act and its associated regulations provide controls over the discharge of a pollutant into bodies of water; onto the ground, which could potentially be carried into a water supply; or into storm sewers.

The Clean Water Act also covers permits for discharging (dumping) debris into ground or surface water. If the intent is to allow the paint debris to fall directly into a body of water, or be flushed into a storm sewer (e.g., blast-clean a ship hull and allow the debris to fall directly into the water below), a permit would be required for this discharge. The permitting requirements are discussed in 40 CFR 122 and are referred to as National Pollutant Discharge Elimination System (NPDES) permits.

B.4 Comprehensive Environmental Response Compensation and Liability Act (CERCLA)

CERCLA (“Superfund”) provides for the emergency response, cleanup, liability, and compensation for hazardous substances released into the environment. CERCLA regulations are contained in 40 CFR Part 300.

CERCLA originally had a 5 year limitation. In 1986 this was extended by the Superfund Amendment Reauthorization Act (SARA). SARA was a reaction to an incident in Bhopal, India where methyl isocyanate was released, killing several thousand people.

With SARA, funding was extended from \$1.6 billion to \$8.5 billion and the Community Right-to-Know policy was established. Community Right-to-Know includes education, emergency planning, and notification to state and local authorities if releases of certain chemicals occur.

B.5 Federal Insecticide, Fungicide and Rodenticide Act

Amendments in 1972 to existing laws became known as the Federal Insecticide, Fungicide and Rodenticide Act. The regulations associated with this act are found in 40 CFR 150-189. The Federal Insecticide, Fungicide and Rodenticide regulations apply to a broad range of substances used to control unwanted organisms including insects, rodents, plants, and microorganisms such as mildew. Anti-fouling coatings containing organotin compounds and other heavy metal compound are subject to this regulation.

1. Part of EPA Background Information Document EPA-453/R-94-071.

B.6 Relevant Controls on Abrasive Emissions and Disposal from General Industry Practice

B.6.1 Survey of State Environmental Regulations

There are approximately 437 shipyards in the United States which are involved to varying degrees in ship construction and repair. Of these 437 shipyards, 41 percent are distributed in 6 states. These 6 states, and the approximate number of shipyards located in each state, are listed in Table 5, below.

Table 5: Major States with Shipyards (NESHAP Background Data)^a

| STATE | NO. OF SHIPYARDS |
|-------------|------------------|
| Louisiana | 74 |
| California | 34 |
| Virginia | 33 |
| Mississippi | 17 |
| Alabama | 15 |
| Maine | 7 |
| TOTAL | 180 |

a. Taken from EPA Background Information Document EPA-453/R-94-071.

Each of these 6 states was contacted and surveyed to determine what environmental requirements (i.e. air and water permitting requirements) are in effect when abrasive blasting operations are being performed.

The results of this survey are contained in Table 6 on page 55.

B.6.2 Air Emissions

The obvious solution in controlling abrasive emissions is not to generate. This may involve substituting removal methods (i.e. chemical stripping for abrasive blasting). However, for the purposes of our study this is not a feasible option. Dry abrasive blasting produces the largest amount of dust during paint removal operations. On paint removal projects, preventing the release of dust to the environment is accomplished by using containment with dust collection. This is true in both the shipyard industry and in general practice. Regardless of whether containment is used on an aircraft carrier, or on a storage tank it must be well designed, tight and properly maintained to prevent the release of fugitive emissions. As discussed earlier in the 5.C, one way to control emissions from abrasive blast cleaning projects is the use of containment with dust collectors. Various factors must be considered when selecting containment. These include:

- the type of structure, its size and elevation;
- location of structure (rural vs. Urban);
- permitting requirements;
- proximity to other buildings, or structures, and;
- local climate.

SSPC Guide 6, *Guide for Containing Debris Generated During Paint Removal Operations* specifies 4 containment classes for use with abrasive blast cleaning. Class 1A provides the greatest level of containment for dusts and debris generated from abrasive blasting, while class 4A provides a moderate level of dust and debris containment. Containment classes 1A through 3A

require the use of exhaust dust filtration for controlling releases of hazardous dusts to the environment.

The bottom line is that emissions (i.e. dust) generated from abrasive blasting, if uncontained, will contaminate both air and surrounding waterways. This holds true for both general industry and marine practice.

Table 6: Survey of Major Shipyard States Environmental Regulations

| Air or Water | Requirement Imposed |
|--------------------|---|
| <i>California</i> | |
| Air | Organized into 34 districts. Notification of activity is required and requirements may vary per district. Permits may be required for larger operations. Prohibitory rules apply in the form of visible opacity limits which vary from 20 to 40% per district. State wide standards have been adopted by the CA Air Resources Board. Nuisance rules also apply. |
| Water | Notification of abrasive blasting activity is required. |
| <i>Virginia</i> | |
| Air | Notification is required. Wet blasting processes - no permit required. Dry blasting processes may require permitting |
| Water | The state of Virginia considers shipyards a point source discharge and therefore a NPDES permit is required |
| <i>Maine</i> | |
| Air | Permit not required strictly for blasting, however a permit is required for VOC. Maine additionally has a visible emission requirement. |
| Water | Permit would be required for discharges |
| <i>Louisiana</i> | |
| Air | Permit required if blasting generates greater than 5 tons emissions/yr. (PM-10) |
| Water | Requires permits for point source discharges |
| <i>Alabama</i> | |
| Air | Permit not required |
| Water | Permit not required, but contractor may need to satisfy regulatory requirements depending upon emissions |
| <i>Mississippi</i> | |
| Air | Permit not required |
| Water | Permit not required |

SSPC Guide 6 provides several methods for assessing the quantity of emissions generated as the result of surface preparation and paint removal methods. Method A (assessing visible emissions) provides immediate feedback and specifies the following emission frequencies:

- Level 0 Emissions—No visible emission.
- Level 1 Emissions—Random emissions of a cumulative duration of no more than 1% of the workday.
- Level 2 Emissions—Random emissions of a cumulative duration of no more than 5% of the workday.
- Level 3 Emissions—No more than 10% of the workday.
- Level 4 Emissions—Emissions are unrestricted and may occur at any time.

In addition to Method A, Guide 6 identifies three (3) additional methods for assessing emissions, These are:

- Method B - Ambient air monitoring for PM-10. This method utilizes high volume air samplers equipped with PM-10 heads to assess the total volume of particulate matter 10 microns (0.39 mils) or less in size that escape the contained work area.
- Method C - Occupational Monitoring of Area Emissions for Lead. Air quantity measurements for lead in accordance with NIOSH 7082 using personal monitors outside of areas or equipment that may potentially emit lead.
- Method D - EPA Ambient Air Monitoring for Toxic Metals. This method utilizes high volume air samplers equipped with total suspended particulate (TSP) heads. The filters are analyzed for lead in accordance with EPA 40 CFR Part 50.

On September 16, 1996 the California Environmental Protection Agency (Air Resources Board) issued an abrasive blasting advisory. This advisory indicates that the California Air Resources Board (ARB) has adopted air pollution standards for sandblasting operations. These regulations require that all abrasive blasting be conducted within a permanent building with the following exceptions allowing outdoor blasting:

- When steel or iron shot/grit is used exclusively, or;
- When blasting is conducted with an ARB certified abrasive, or if wet abrasive blasting, hydroblasting, or vacuum blasting techniques are used - and the item blasted exceeds 8 feet in any dimension, or is situated in a permanent location.

In addition, current California regulations apply a 40 percent opacity visible emission standard to all permissible outdoor blasting, and a 20 percent opacity standard to all permissible indoor blasting, regardless of the abrasive or the blasting technique used.

Title 17 of the California Code of Regulations requires the ARB to certify abrasives for permissible dry outdoor blasting as complying with specific performance standards.

B.7 Water Emissions

One navy shipyard faced drydock water pollution problems in meeting its National Pollutant Discharge Elimination System (NPDES) permit limits for discharges of copper, zinc, lead, chromium, and cadmium. Abrasive blasting and painting were believed to be the primary sources for copper and zinc in this shipyard's drydock waters. To meet its NPDES requirements this shipyard developed standards, procedures, and process controls necessary to gain an acceptable level of control over these pollutants.¹ By addressing a broad range of issues including policies, standards of performance, and treatment technologies this shipyard has been successful in reaching its discharge NPDES limitations. By utilizing a drydock water collection and treatment system this shipyard was able to collect and process wastewaters containing high levels of contaminants.

The best method for controlling fugitive emissions to surrounding waterways is to contain the structure. This control method applies to both marine and general practice regardless of the type of structure in question.

If poor containment is used, or containment is not maintained, emissions will be released to the surrounding environment. Waterways adjacent to abrasive blast projects will be contaminated from dust and debris as a result of fallout. The key therefore, in controlling emissions, is to use tight containment and to maintain containment once it is constructed.

1. "Drydock Water Pollution Control Efforts at Norfolk Naval Shipyard," Unpublished Paper <<Working on More Reference Info - This was one of Grabiak's references tracking down source>>.

B.8 Solid Waste Disposal

Abrasive blast cleaning produces large amounts of waste. The waste consists of a mixture of spent abrasive and the removed coating. Wastes generated from marine abrasive blast cleaning projects are subject to RCRA regulation and are classified as either solid (non-hazardous) wastes or hazardous wastes.

B.8.1 Determining if Wastes are Hazardous

To make this determination the wastes are analyzed to determine the leachable concentration of toxins. If this concentration exceeds limits set by the EPA the wastes are classified as hazardous.

RCRA defines extensive procedures for the handling of hazardous wastes. These requirements include provisions for the following items:

- Waste identification;
- Obtaining an EPA generator identification number;
- Manifesting of hazardous wastes sent off site;
- Packaging and labeling requirements;
- Emergency Response and Preparedness;
- Training, and;
- Record keeping requirements.

All wastes generated from abrasive blast cleaning will be classified as solid wastes.¹ EPA classifies solid waste as hazardous if either of the two following conditions are met:

1. It is specifically included on lists published by EPA (listed)
2. It meets any one of these four criteria (known as characteristics)
 - Ignitability;
 - Corrosivity;
 - Reactivity, or;
 - Toxicity.

Solid wastes generated by abrasive blasting, on general industry projects, which contain or are suspected to contain any hazardous component, must be tested to identify and quantify the hazardous constituent. This test method is the Toxicity Characteristics Leaching Procedure (TCLP). Currently there are eight metals regulated by RCRA. Lead, cadmium and chromium are those most commonly found in paints, these are listed in Table 7, on the following page.

1. EPA, 40 CFR 261.2 "Definition of a Solid Waste"

Table 7: Regulated Wastes Found in Solid Paint Wastes

| METAL | EPA ID# | THRESHOLD (mg./liter)* |
|--------------|----------------|-------------------------------|
| Arsenic | D004 | 5.0 |
| Barium | D005 | 100.0 |
| Cadmium | D007 | 1.0 |
| Chromium | D007 | 5.0 |
| Lead | D008 | 5.0 |
| Mercury | D009 | 0.2 |
| Selenium | D010 | 5.0 |
| Silver | D011 | 20.0 |

B.8.2 Approaches for Minimizing Hazardous Waste

One method for controlling wastes (waste minimization) generated from abrasive blasting is substitution of method (i.e. engineering controls - using vacuum blasting as opposed to open blast cleaning).

Other methods for controlling wastes generated by abrasive blasting are:

- **Steel Grit Additive** - stabilization of abrasive media by iron (i.e. steel grit) addition, occurs by a plating reaction when the steel-containing debris is placed in the TCLP solution. The lead that goes into solution during the TCLP test plates out on the steel particles and is therefore no longer present in the liquid that is analyzed, but must be disposed of as a hazardous waste to avoid a possible CERCLA violation.
- **Proprietary Non-Metallic Additive** - BlastoxTM is a proprietary non-metallic calcium-containing cementitious material. It is added to conventional non-metallic abrasives such as coal slag at about 15 to 20 percent (by weight). The manufacturer claims state that this product stabilizes the lead waste rendering it non-hazardous. Because the material is pre-blended and becomes part of the blasting media, a hazardous waste is never generated, so the provisions of RCRA do not apply. The manufacturer has also claimed that the lead is not subject to resolubilization in a landfill over time. It has been specified by a number of DOTs and the United States Army Corps of Engineers.
- **Post-Blast Treatments** - various post treatments have been studied: Portland cement, lime, and sodium bicarbonate, to name only a few. There are also some cement producers that can use the spent abrasive as a feed stock in cement kilns.

National Shipbuilding Research Program
Project Number 3-95-7
User's Guide to Selection of Blasting Abrasives

Data Tables

Prepared for: Peterson Builders, Inc. 41 N. Third Avenue, Sturgeon Bay, WI 54235-0648

Prepared By: SSPC: The Society for Protective Coatings, 40 24th Street, Suite 600, Pittsburgh, PA 15222

The tables in this document are grouped in the following fashion:

- Tables of Consumption Data for Abrasives, tagged "CC" for Consumable Abrasive Consumption
- Tables of Abrasive Productivity Data, tagged "CP" for Consumable Abrasive Productivity
- Tables of Production Rate and Consumption Data for Recyclable Abrasives, tagged "RCC, RCP and PR" (These tables are presented on the same page).
- Tables of Production Rate Data for Abrasives, tagged "PC for Production Rate Consumable Abrasives."

Within each group data tables are organized in the following order:

- By Type of Original Condition Then
 - 1 - Light Rust, Millscale or Loose Paint
 - 2 - Tight Rust or Millscale
 - 3 - Thin Paint or Rusted Thin Paint
 - 4 - Thick Paint, Heavy Millscale or Heavy Pitted Rust
- By Profile Range
 - 1 - Low Profile
 - 2 - Medium Profile
 - 3 - High Profile

Then

- By Degree of Cleaning Then
 - 1 - SSPC-SP 5
 - 2 - SSPC-SP 10
 - 3 - SSPC-SP 6
 - 4 - SSPC-SP 7
- By Coating Hardness
 - 1 - Hard Coating
 - 2 - Soft Coating
 - 3 - New Steel

Each table bears a number corresponding to the type of job. This number scheme was described in the guide. For example, a table labeled 1111 corresponds to 1 - Light Rust, Millscale or Loose Paint; 1 - Low Profile; 1 - SSPC-SP 5; 1 - Hard Coating. These labels are reproduced at the foot of each table, so you can identify the type of job without converting the numeric code.

Organization of Tables in This Document

**Tables 1111 CC
Through 4241 CC**

**This Section of The Data Tables Contains Tables
from 1111 through 4241 for Consumable Abrasive
Consumption.**

| Operating Conditions | | Consumption Rate lbs/hr of Blasting | | | | | | | | | | | | | | |
|----------------------|----------------|-------------------------------------|--------|------|-----------------------------|------|--------|------|--------------------------------|------------|--------|--------|--------------|---------|-------|------------|
| | | Typical Mineral Abrasive | | | Refinery & By-Product Grits | | | | Natural or Mined Grits & Sands | | | | Manufactured | | | |
| Nozzle Size | Pressure (psi) | -25% | Median | +25% | Copper | Coal | Nickel | Iron | Olivine | Staurolite | Garnet | Silica | Zircon | Alumina | Glass | Steel Iron |
| 6 | 90 | 789 | 1052 | 1315 | 1157 | 894 | 894 | 999 | 1262 | 1368 | 1525 | 1052 | 1946 | 1262 | 1052 | 3209 |
| 7 | 90 | 1086 | 1448 | 1810 | 1593 | 1231 | 1231 | 1376 | 1738 | 1882 | 2100 | 1448 | 2679 | 1738 | 1448 | 4416 |
| 8 | 90 | 1392 | 1856 | 2320 | 2042 | 1578 | 1578 | 1763 | 2227 | 2413 | 2691 | 1856 | 3434 | 2227 | 1856 | 5661 |
| 6 | 100 | 864 | 1152 | 1440 | 1267 | 979 | 979 | 1094 | 1382 | 1498 | 1670 | 1152 | 2131 | 1382 | 1152 | 3514 |
| 7 | 100 | 1188 | 1584 | 1980 | 1742 | 1346 | 1346 | 1505 | 1901 | 2059 | 2297 | 1584 | 2930 | 1901 | 1584 | 4831 |
| 8 | 100 | 1518 | 2024 | 2530 | 2226 | 1720 | 1720 | 1923 | 2429 | 2631 | 2935 | 2024 | 3744 | 2429 | 2024 | 6173 |
| 6 | 110 | 920 | 1226 | 1533 | 1349 | 1042 | 1042 | 1165 | 1471 | 1594 | 1778 | 1226 | 2268 | 1471 | 1226 | 3739 |
| 7 | 110 | 1274 | 1699 | 2124 | 1869 | 1444 | 1444 | 1614 | 2039 | 2209 | 2464 | 1699 | 3143 | 2039 | 1699 | 5182 |
| 8 | 110 | 1623 | 2164 | 2705 | 2380 | 1839 | 1839 | 2056 | 2597 | 2813 | 3138 | 2164 | 4003 | 2597 | 2164 | 6600 |
| 6 | 125 | 1045 | 1393 | 1741 | 1532 | 1184 | 1184 | 1323 | 1672 | 1811 | 2020 | 1393 | 2577 | 1672 | 1393 | 4249 |
| 7 | 125 | 1448 | 1931 | 2414 | 2124 | 1641 | 1641 | 1834 | 2317 | 2510 | 2800 | 1931 | 3572 | 2317 | 1931 | 5890 |
| 8 | 125 | 1844 | 2459 | 3074 | 2705 | 2090 | 2090 | 2336 | 2951 | 3197 | 3566 | 2459 | 4549 | 2951 | 2459 | 7500 |

Light Rust, Millscale or Loose Paint

Hard Coating

Low Profile Range

SSPC-SP 5

Tables 1111 CC

| Operating Conditions | | Consumption Rate lbs/hr of Blasting | | | | | | | | | | | | | | |
|----------------------|----------------|-------------------------------------|--------|------|-----------------------------|------|--------|------|--------------------------------|------------|--------|--------|--------------|---------|-------|------|
| | | Typical Mineral Abrasive | | | Refinery & By-Product Grits | | | | Natural or Mined Grits & Sands | | | | Manufactured | | | |
| Nozzle Size | Pressure (psi) | -25% | Median | +25% | Copper | Coal | Nickel | Iron | Olivine | Staurolite | Garnet | Silica | Zircon | Alumina | Glass | Iron |
| 6 | 90 | 789 | 1052 | 1315 | 1157 | 894 | 894 | 999 | 1262 | 1368 | 1525 | 1052 | 1946 | 1262 | 1052 | 3209 |
| 7 | 90 | 1086 | 1448 | 1810 | 1593 | 1231 | 1231 | 1376 | 1738 | 1882 | 2100 | 1448 | 2679 | 1738 | 1448 | 4416 |
| 8 | 90 | 1392 | 1856 | 2320 | 2042 | 1578 | 1578 | 1763 | 2227 | 2413 | 2691 | 1856 | 3434 | 2227 | 1856 | 5661 |
| 6 | 100 | 864 | 1152 | 1440 | 1267 | 979 | 979 | 1094 | 1382 | 1498 | 1670 | 1152 | 2131 | 1382 | 1152 | 3514 |
| 7 | 100 | 1188 | 1584 | 1980 | 1742 | 1346 | 1346 | 1505 | 1901 | 2059 | 2297 | 1584 | 2930 | 1901 | 1584 | 4831 |
| 8 | 100 | 1518 | 2024 | 2530 | 2226 | 1720 | 1720 | 1923 | 2429 | 2631 | 2935 | 2024 | 3744 | 2429 | 2024 | 6173 |
| 6 | 110 | 920 | 1226 | 1533 | 1349 | 1042 | 1042 | 1165 | 1471 | 1594 | 1778 | 1226 | 2268 | 1471 | 1226 | 3739 |
| 7 | 110 | 1274 | 1699 | 2124 | 1869 | 1444 | 1444 | 1614 | 2039 | 2209 | 2464 | 1699 | 3143 | 2039 | 1699 | 5182 |
| 8 | 110 | 1623 | 2164 | 2705 | 2380 | 1839 | 1839 | 2056 | 2597 | 2813 | 3138 | 2164 | 4003 | 2597 | 2164 | 6600 |
| 6 | 125 | 1045 | 1393 | 1741 | 1532 | 1184 | 1184 | 1323 | 1672 | 1811 | 2020 | 1393 | 2577 | 1672 | 1393 | 4249 |
| 7 | 125 | 1448 | 1931 | 2414 | 2124 | 1641 | 1641 | 1834 | 2317 | 2510 | 2800 | 1931 | 3572 | 2317 | 1931 | 5890 |
| 8 | 125 | 1844 | 2459 | 3074 | 2705 | 2090 | 2090 | 2336 | 2951 | 3197 | 3566 | 2459 | 4549 | 2951 | 2459 | 7500 |

Light Rust, Millscale or Loose Paint

Hard Coating

Medium Profile Range

SSPC-SP 5

Tables 1112 CC

| Operating Conditions | | Consumption Rate lbs/hr of Blasting | | | | | | | | | | | | | | |
|----------------------|----------------|-------------------------------------|--------|------|-----------------------------|------|--------|------|--------------------------------|------------|--------|--------|--------------|---------|-------|------------|
| | | Typical Mineral Abrasive | | | Refinery & By-Product Grits | | | | Natural or Mined Grits & Sands | | | | Manufactured | | | |
| Nozzle Size | Pressure (psi) | -25% | Median | +25% | Copper | Coal | Nickel | Iron | Olivine | Staurolite | Garnet | Silica | Zircon | Alumina | Glass | Steel Iron |
| 6 | 90 | 789 | 1052 | 1315 | 1157 | 894 | 894 | 999 | 1262 | 1368 | 1525 | 1052 | 1946 | 1262 | 1052 | 3209 |
| 7 | 90 | 1086 | 1448 | 1810 | 1593 | 1231 | 1231 | 1376 | 1738 | 1882 | 2100 | 1448 | 2679 | 1738 | 1448 | 4416 |
| 8 | 90 | 1392 | 1856 | 2320 | 2042 | 1578 | 1578 | 1763 | 2227 | 2413 | 2691 | 1856 | 3434 | 2227 | 1856 | 5661 |
| 6 | 100 | 864 | 1152 | 1440 | 1267 | 979 | 979 | 1094 | 1382 | 1498 | 1670 | 1152 | 2131 | 1382 | 1152 | 3514 |
| 7 | 100 | 1188 | 1584 | 1980 | 1742 | 1346 | 1346 | 1505 | 1901 | 2059 | 2297 | 1584 | 2930 | 1901 | 1584 | 4831 |
| 8 | 100 | 1518 | 2024 | 2530 | 2226 | 1720 | 1720 | 1923 | 2429 | 2631 | 2935 | 2024 | 3744 | 2429 | 2024 | 6173 |
| 6 | 110 | 920 | 1226 | 1533 | 1349 | 1042 | 1042 | 1165 | 1471 | 1594 | 1778 | 1226 | 2268 | 1471 | 1226 | 3739 |
| 7 | 110 | 1274 | 1699 | 2124 | 1869 | 1444 | 1444 | 1614 | 2039 | 2209 | 2464 | 1699 | 3143 | 2039 | 1699 | 5182 |
| 8 | 110 | 1623 | 2164 | 2705 | 2380 | 1839 | 1839 | 2056 | 2597 | 2813 | 3138 | 2164 | 4003 | 2597 | 2164 | 6600 |
| 6 | 125 | 1045 | 1393 | 1741 | 1532 | 1184 | 1184 | 1323 | 1672 | 1811 | 2020 | 1393 | 2577 | 1672 | 1393 | 4249 |
| 7 | 125 | 1448 | 1931 | 2414 | 2124 | 1641 | 1641 | 1834 | 2317 | 2510 | 2800 | 1931 | 3572 | 2317 | 1931 | 5890 |
| 8 | 125 | 1844 | 2459 | 3074 | 2705 | 2090 | 2090 | 2336 | 2951 | 3197 | 3566 | 2459 | 4549 | 2951 | 2459 | 7500 |

Light Rust, Millscale or Loose Paint

Hard Coating

High Profile Range

SSPC-SP 5

Tables 1113 CC

| Operating Conditions | | Consumption Rate lbs/hr of Blasting | | | | | | | | | | | | | | |
|----------------------|----------------|-------------------------------------|--------|------|-----------------------------|------|--------|------|--------------------------------|------------|--------|--------|--------------|---------|-------|------|
| | | Typical Mineral Abrasive | | | Refinery & By-Product Grits | | | | Natural or Mined Grits & Sands | | | | Manufactured | | | |
| Nozzle Size | Pressure (psi) | -25% | Median | +25% | Copper | Coal | Nickel | Iron | Olivine | Staurolite | Garnet | Silica | Zircon | Alumina | Glass | Iron |
| 6 | 90 | 789 | 1052 | 1315 | 1157 | 894 | 894 | 999 | 1262 | 1368 | 1525 | 1052 | 1946 | 1262 | 1052 | 3209 |
| 7 | 90 | 1086 | 1448 | 1810 | 1593 | 1231 | 1231 | 1376 | 1738 | 1882 | 2100 | 1448 | 2679 | 1738 | 1448 | 4416 |
| 8 | 90 | 1392 | 1856 | 2320 | 2042 | 1578 | 1578 | 1763 | 2227 | 2413 | 2691 | 1856 | 3434 | 2227 | 1856 | 5661 |
| 6 | 100 | 864 | 1152 | 1440 | 1267 | 979 | 979 | 1094 | 1382 | 1498 | 1670 | 1152 | 2131 | 1382 | 1152 | 3514 |
| 7 | 100 | 1188 | 1584 | 1980 | 1742 | 1346 | 1346 | 1505 | 1901 | 2059 | 2297 | 1584 | 2930 | 1901 | 1584 | 4831 |
| 8 | 100 | 1518 | 2024 | 2530 | 2226 | 1720 | 1720 | 1923 | 2429 | 2631 | 2935 | 2024 | 3744 | 2429 | 2024 | 6173 |
| 6 | 110 | 920 | 1226 | 1533 | 1349 | 1042 | 1042 | 1165 | 1471 | 1594 | 1778 | 1226 | 2268 | 1471 | 1226 | 3739 |
| 7 | 110 | 1274 | 1699 | 2124 | 1869 | 1444 | 1444 | 1614 | 2039 | 2209 | 2464 | 1699 | 3143 | 2039 | 1699 | 5182 |
| 8 | 110 | 1623 | 2164 | 2705 | 2380 | 1839 | 1839 | 2056 | 2597 | 2813 | 3138 | 2164 | 4003 | 2597 | 2164 | 6600 |
| 6 | 125 | 1045 | 1393 | 1741 | 1532 | 1184 | 1184 | 1323 | 1672 | 1811 | 2020 | 1393 | 2577 | 1672 | 1393 | 4249 |
| 7 | 125 | 1448 | 1931 | 2414 | 2124 | 1641 | 1641 | 1834 | 2317 | 2510 | 2800 | 1931 | 3572 | 2317 | 1931 | 5890 |
| 8 | 125 | 1844 | 2459 | 3074 | 2705 | 2090 | 2090 | 2336 | 2951 | 3197 | 3566 | 2459 | 4549 | 2951 | 2459 | 7500 |

Light Rust, Millscale or Loose Paint

Hard Coating

Low Profile Range

SSPC-SP 10

Tables 1121 CC

| Operating Conditions | | Consumption Rate lbs/hr of Blasting | | | | | | | | | | | | | | |
|----------------------|----------------|-------------------------------------|--------|------|-----------------------------|------|--------|------|--------------------------------|------------|--------|--------|--------------|---------|-------|------|
| | | Typical Mineral Abrasive | | | Refinery & By-Product Grits | | | | Natural or Mined Grits & Sands | | | | Manufactured | | | |
| Nozzle Size | Pressure (psi) | -25% | Median | +25% | Copper | Coal | Nickel | Iron | Olivine | Staurolite | Garnet | Silica | Zircon | Alumina | Glass | Iron |
| 6 | 90 | 789 | 1052 | 1315 | 1157 | 894 | 894 | 999 | 1262 | 1368 | 1525 | 1052 | 1946 | 1262 | 1052 | 3209 |
| 7 | 90 | 1086 | 1448 | 1810 | 1593 | 1231 | 1231 | 1376 | 1738 | 1882 | 2100 | 1448 | 2679 | 1738 | 1448 | 4416 |
| 8 | 90 | 1392 | 1856 | 2320 | 2042 | 1578 | 1578 | 1763 | 2227 | 2413 | 2691 | 1856 | 3434 | 2227 | 1856 | 5661 |
| 6 | 100 | 864 | 1152 | 1440 | 1267 | 979 | 979 | 1094 | 1382 | 1498 | 1670 | 1152 | 2131 | 1382 | 1152 | 3514 |
| 7 | 100 | 1188 | 1584 | 1980 | 1742 | 1346 | 1346 | 1505 | 1901 | 2059 | 2297 | 1584 | 2930 | 1901 | 1584 | 4831 |
| 8 | 100 | 1518 | 2024 | 2530 | 2226 | 1720 | 1720 | 1923 | 2429 | 2631 | 2935 | 2024 | 3744 | 2429 | 2024 | 6173 |
| 6 | 110 | 920 | 1226 | 1533 | 1349 | 1042 | 1042 | 1165 | 1471 | 1594 | 1778 | 1226 | 2268 | 1471 | 1226 | 3739 |
| 7 | 110 | 1274 | 1699 | 2124 | 1869 | 1444 | 1444 | 1614 | 2039 | 2209 | 2464 | 1699 | 3143 | 2039 | 1699 | 5182 |
| 8 | 110 | 1623 | 2164 | 2705 | 2380 | 1839 | 1839 | 2056 | 2597 | 2813 | 3138 | 2164 | 4003 | 2597 | 2164 | 6600 |
| 6 | 125 | 1045 | 1393 | 1741 | 1532 | 1184 | 1184 | 1323 | 1672 | 1811 | 2020 | 1393 | 2577 | 1672 | 1393 | 4249 |
| 7 | 125 | 1448 | 1931 | 2414 | 2124 | 1641 | 1641 | 1834 | 2317 | 2510 | 2800 | 1931 | 3572 | 2317 | 1931 | 5890 |
| 8 | 125 | 1844 | 2459 | 3074 | 2705 | 2090 | 2090 | 2336 | 2951 | 3197 | 3566 | 2459 | 4549 | 2951 | 2459 | 7500 |

Light Rust, Millscale or Loose Paint

Hard Coating

Medium Profile Range

SSPC-SP 10

Tables 1122 CC

| Operating Conditions | | Consumption Rate lbs/hr of Blasting | | | | | | | | | | | | | | |
|----------------------|----------------|-------------------------------------|--------|------|-----------------------------|------|--------|------|--------------------------------|------------|--------|--------|--------------|---------|-------|------|
| | | Typical Mineral Abrasive | | | Refinery & By-Product Grits | | | | Natural or Mined Grits & Sands | | | | Manufactured | | | |
| Nozzle Size | Pressure (psi) | -25% | Median | +25% | Copper | Coal | Nickel | Iron | Olivine | Staurolite | Garnet | Silica | Zircon | Alumina | Glass | Iron |
| 6 | 90 | 789 | 1052 | 1315 | 1157 | 894 | 894 | 999 | 1262 | 1368 | 1525 | 1052 | 1946 | 1262 | 1052 | 3209 |
| 7 | 90 | 1086 | 1448 | 1810 | 1593 | 1231 | 1231 | 1376 | 1738 | 1882 | 2100 | 1448 | 2679 | 1738 | 1448 | 4416 |
| 8 | 90 | 1392 | 1856 | 2320 | 2042 | 1578 | 1578 | 1763 | 2227 | 2413 | 2691 | 1856 | 3434 | 2227 | 1856 | 5661 |
| 6 | 100 | 864 | 1152 | 1440 | 1267 | 979 | 979 | 1094 | 1382 | 1498 | 1670 | 1152 | 2131 | 1382 | 1152 | 3514 |
| 7 | 100 | 1188 | 1584 | 1980 | 1742 | 1346 | 1346 | 1505 | 1901 | 2059 | 2297 | 1584 | 2930 | 1901 | 1584 | 4831 |
| 8 | 100 | 1518 | 2024 | 2530 | 2226 | 1720 | 1720 | 1923 | 2429 | 2631 | 2935 | 2024 | 3744 | 2429 | 2024 | 6173 |
| 6 | 110 | 920 | 1226 | 1533 | 1349 | 1042 | 1042 | 1165 | 1471 | 1594 | 1778 | 1226 | 2268 | 1471 | 1226 | 3739 |
| 7 | 110 | 1274 | 1699 | 2124 | 1869 | 1444 | 1444 | 1614 | 2039 | 2209 | 2464 | 1699 | 3143 | 2039 | 1699 | 5182 |
| 8 | 110 | 1623 | 2164 | 2705 | 2380 | 1839 | 1839 | 2056 | 2597 | 2813 | 3138 | 2164 | 4003 | 2597 | 2164 | 6600 |
| 6 | 125 | 1045 | 1393 | 1741 | 1532 | 1184 | 1184 | 1323 | 1672 | 1811 | 2020 | 1393 | 2577 | 1672 | 1393 | 4249 |
| 7 | 125 | 1448 | 1931 | 2414 | 2124 | 1641 | 1641 | 1834 | 2317 | 2510 | 2800 | 1931 | 3572 | 2317 | 1931 | 5890 |
| 8 | 125 | 1844 | 2459 | 3074 | 2705 | 2090 | 2090 | 2336 | 2951 | 3197 | 3566 | 2459 | 4549 | 2951 | 2459 | 7500 |

Light Rust, Millscale or Loose Paint

Hard Coating

High Profile Range

SSPC-SP 10

Tables 1123 CC

| Operating Conditions | | Consumption Rate lbs/hr of Blasting | | | | | | | | | | | | | | |
|----------------------|----------------|-------------------------------------|--------|------|-----------------------------|------|--------|------|--------------------------------|------------|--------|--------|--------------|---------|-------|------------|
| | | Typical Mineral Abrasive | | | Refinery & By-Product Grits | | | | Natural or Mined Grits & Sands | | | | Manufactured | | | |
| Nozzle Size | Pressure (psi) | -25% | Median | +25% | Copper | Coal | Nickel | Iron | Olivine | Staurolite | Garnet | Silica | Zircon | Alumina | Glass | Steel Iron |
| 6 | 90 | 789 | 1052 | 1315 | 1157 | 894 | 894 | 999 | 1262 | 1368 | 1525 | 1052 | 1946 | 1262 | 1052 | 3209 |
| 7 | 90 | 1086 | 1448 | 1810 | 1593 | 1231 | 1231 | 1376 | 1738 | 1882 | 2100 | 1448 | 2679 | 1738 | 1448 | 4416 |
| 8 | 90 | 1392 | 1856 | 2320 | 2042 | 1578 | 1578 | 1763 | 2227 | 2413 | 2691 | 1856 | 3434 | 2227 | 1856 | 5661 |
| 6 | 100 | 864 | 1152 | 1440 | 1267 | 979 | 979 | 1094 | 1382 | 1498 | 1670 | 1152 | 2131 | 1382 | 1152 | 3514 |
| 7 | 100 | 1188 | 1584 | 1980 | 1742 | 1346 | 1346 | 1505 | 1901 | 2059 | 2297 | 1584 | 2930 | 1901 | 1584 | 4831 |
| 8 | 100 | 1518 | 2024 | 2530 | 2226 | 1720 | 1720 | 1923 | 2429 | 2631 | 2935 | 2024 | 3744 | 2429 | 2024 | 6173 |
| 6 | 110 | 920 | 1226 | 1533 | 1349 | 1042 | 1042 | 1165 | 1471 | 1594 | 1778 | 1226 | 2268 | 1471 | 1226 | 3739 |
| 7 | 110 | 1274 | 1699 | 2124 | 1869 | 1444 | 1444 | 1614 | 2039 | 2209 | 2464 | 1699 | 3143 | 2039 | 1699 | 5182 |
| 8 | 110 | 1623 | 2164 | 2705 | 2380 | 1839 | 1839 | 2056 | 2597 | 2813 | 3138 | 2164 | 4003 | 2597 | 2164 | 6600 |
| 6 | 125 | 1045 | 1393 | 1741 | 1532 | 1184 | 1184 | 1323 | 1672 | 1811 | 2020 | 1393 | 2577 | 1672 | 1393 | 4249 |
| 7 | 125 | 1448 | 1931 | 2414 | 2124 | 1641 | 1641 | 1834 | 2317 | 2510 | 2800 | 1931 | 3572 | 2317 | 1931 | 5890 |
| 8 | 125 | 1844 | 2459 | 3074 | 2705 | 2090 | 2090 | 2336 | 2951 | 3197 | 3566 | 2459 | 4549 | 2951 | 2459 | 7500 |

Light Rust, Millscale or Loose Paint

Hard Coating

Low Profile Range

SSPC-SP 6

Tables 1131 CC

| Operating Conditions | | Consumption Rate lbs/hr of Blasting | | | | | | | | | | | | | | |
|----------------------|----------------|-------------------------------------|--------|------|-----------------------------|------|--------|------|--------------------------------|------------|--------|--------|--------------|---------|-------|------|
| | | Typical Mineral Abrasive | | | Refinery & By-Product Grits | | | | Natural or Mined Grits & Sands | | | | Manufactured | | | |
| Nozzle Size | Pressure (psi) | -25% | Median | +25% | Copper | Coal | Nickel | Iron | Olivine | Staurolite | Garnet | Silica | Zircon | Alumina | Glass | |
| 6 | 90 | 789 | 1052 | 1315 | 1157 | 894 | 894 | 999 | 1262 | 1368 | 1525 | 1052 | 1946 | 1262 | 1052 | 3209 |
| 7 | 90 | 1086 | 1448 | 1810 | 1593 | 1231 | 1231 | 1376 | 1738 | 1882 | 2100 | 1448 | 2679 | 1738 | 1448 | 4416 |
| 8 | 90 | 1392 | 1856 | 2320 | 2042 | 1578 | 1578 | 1763 | 2227 | 2413 | 2691 | 1856 | 3434 | 2227 | 1856 | 5661 |
| 6 | 100 | 864 | 1152 | 1440 | 1267 | 979 | 979 | 1094 | 1382 | 1498 | 1670 | 1152 | 2131 | 1382 | 1152 | 3514 |
| 7 | 100 | 1188 | 1584 | 1980 | 1742 | 1346 | 1346 | 1505 | 1901 | 2059 | 2297 | 1584 | 2930 | 1901 | 1584 | 4831 |
| 8 | 100 | 1518 | 2024 | 2530 | 2226 | 1720 | 1720 | 1923 | 2429 | 2631 | 2935 | 2024 | 3744 | 2429 | 2024 | 6173 |
| 6 | 110 | 920 | 1226 | 1533 | 1349 | 1042 | 1042 | 1165 | 1471 | 1594 | 1778 | 1226 | 2268 | 1471 | 1226 | 3739 |
| 7 | 110 | 1274 | 1699 | 2124 | 1869 | 1444 | 1444 | 1614 | 2039 | 2209 | 2464 | 1699 | 3143 | 2039 | 1699 | 5182 |
| 8 | 110 | 1623 | 2164 | 2705 | 2380 | 1839 | 1839 | 2056 | 2597 | 2813 | 3138 | 2164 | 4003 | 2597 | 2164 | 6600 |
| 6 | 125 | 1045 | 1393 | 1741 | 1532 | 1184 | 1184 | 1323 | 1672 | 1811 | 2020 | 1393 | 2577 | 1672 | 1393 | 4249 |
| 7 | 125 | 1448 | 1931 | 2414 | 2124 | 1641 | 1641 | 1834 | 2317 | 2510 | 2800 | 1931 | 3572 | 2317 | 1931 | 5890 |
| 8 | 125 | 1844 | 2459 | 3074 | 2705 | 2090 | 2090 | 2336 | 2951 | 3197 | 3566 | 2459 | 4549 | 2951 | 2459 | 7500 |

Light Rust, Millscale or Loose Paint

Hard Coating

Medium Profile Range

SSPC-SP 6

Tables 1132 CC

| Operating Conditions | | Consumption Rate lbs/hr of Blasting | | | | | | | | | | | | | | | |
|----------------------|----------------|-------------------------------------|--------|------|-----------------------------|------|--------|------|--------------------------------|------------|--------|--------|--------------|---------|-------|------|------------|
| Nozzle Size | Pressure (psi) | Typical Mineral Abrasive | | | Refinery & By-Product Grits | | | | Natural or Mined Grits & Sands | | | | Manufactured | | | | Steel Iron |
| | | -25% | Median | +25% | Copper | Coal | Nickel | Iron | Olivine | Staurolite | Garnet | Silica | Zircon | Alumina | Glass | | |
| 6 | 90 | 789 | 1052 | 1315 | 1157 | 894 | 894 | 999 | 1262 | 1368 | 1525 | 1052 | 1946 | 1262 | 1052 | 3209 | |
| 7 | 90 | 1086 | 1448 | 1810 | 1593 | 1231 | 1231 | 1376 | 1738 | 1882 | 2100 | 1448 | 2679 | 1738 | 1448 | 4416 | |
| 8 | 90 | 1392 | 1856 | 2320 | 2042 | 1578 | 1578 | 1763 | 2227 | 2413 | 2691 | 1856 | 3434 | 2227 | 1856 | 5661 | |
| 6 | 100 | 864 | 1152 | 1440 | 1267 | 979 | 979 | 1094 | 1382 | 1498 | 1670 | 1152 | 2131 | 1382 | 1152 | 3514 | |
| 7 | 100 | 1188 | 1584 | 1980 | 1742 | 1346 | 1346 | 1505 | 1901 | 2059 | 2297 | 1584 | 2930 | 1901 | 1584 | 4831 | |
| 8 | 100 | 1518 | 2024 | 2530 | 2226 | 1720 | 1720 | 1923 | 2429 | 2631 | 2935 | 2024 | 3744 | 2429 | 2024 | 6173 | |
| 6 | 110 | 920 | 1226 | 1533 | 1349 | 1042 | 1042 | 1165 | 1471 | 1594 | 1778 | 1226 | 2268 | 1471 | 1226 | 3739 | |
| 7 | 110 | 1274 | 1699 | 2124 | 1869 | 1444 | 1444 | 1614 | 2039 | 2209 | 2464 | 1699 | 3143 | 2039 | 1699 | 5182 | |
| 8 | 110 | 1623 | 2164 | 2705 | 2380 | 1839 | 1839 | 2056 | 2597 | 2813 | 3138 | 2164 | 4003 | 2597 | 2164 | 6600 | |
| 6 | 125 | 1045 | 1393 | 1741 | 1532 | 1184 | 1184 | 1323 | 1672 | 1811 | 2020 | 1393 | 2577 | 1672 | 1393 | 4249 | |
| 7 | 125 | 1448 | 1931 | 2414 | 2124 | 1641 | 1641 | 1834 | 2317 | 2510 | 2800 | 1931 | 3572 | 2317 | 1931 | 5890 | |
| 8 | 125 | 1844 | 2459 | 3074 | 2705 | 2090 | 2090 | 2336 | 2951 | 3197 | 3566 | 2459 | 4549 | 2951 | 2459 | 7500 | |

Light Rust, Millscale or Loose Paint

Hard Coating

High Profile Range

SSPC-SP 6

Tables 1133 CC

| Operating Conditions | | Consumption Rate lbs/hr of Blasting | | | | | | | | | | | | | | |
|----------------------|----------------|-------------------------------------|--------|------|-----------------------------|------|--------|------|--------------------------------|------------|--------|--------|--------------|---------|-------|------|
| | | Typical Mineral Abrasive | | | Refinery & By-Product Grits | | | | Natural or Mined Grits & Sands | | | | Manufactured | | | |
| Nozzle Size | Pressure (psi) | -25% | Median | +25% | Copper | Coal | Nickel | Iron | Olivine | Staurolite | Garnet | Silica | Zircon | Alumina | Glass | Iron |
| 6 | 90 | 789 | 1052 | 1315 | 1157 | 894 | 894 | 999 | 1262 | 1368 | 1525 | 1052 | 1946 | 1262 | 1052 | 3209 |
| 7 | 90 | 1086 | 1448 | 1810 | 1593 | 1231 | 1231 | 1376 | 1738 | 1882 | 2100 | 1448 | 2679 | 1738 | 1448 | 4416 |
| 8 | 90 | 1392 | 1856 | 2320 | 2042 | 1578 | 1578 | 1763 | 2227 | 2413 | 2691 | 1856 | 3434 | 2227 | 1856 | 5661 |
| 6 | 100 | 864 | 1152 | 1440 | 1267 | 979 | 979 | 1094 | 1382 | 1498 | 1670 | 1152 | 2131 | 1382 | 1152 | 3514 |
| 7 | 100 | 1188 | 1584 | 1980 | 1742 | 1346 | 1346 | 1505 | 1901 | 2059 | 2297 | 1584 | 2930 | 1901 | 1584 | 4831 |
| 8 | 100 | 1518 | 2024 | 2530 | 2226 | 1720 | 1720 | 1923 | 2429 | 2631 | 2935 | 2024 | 3744 | 2429 | 2024 | 6173 |
| 6 | 110 | 920 | 1226 | 1533 | 1349 | 1042 | 1042 | 1165 | 1471 | 1594 | 1778 | 1226 | 2268 | 1471 | 1226 | 3739 |
| 7 | 110 | 1274 | 1699 | 2124 | 1869 | 1444 | 1444 | 1614 | 2039 | 2209 | 2464 | 1699 | 3143 | 2039 | 1699 | 5182 |
| 8 | 110 | 1623 | 2164 | 2705 | 2380 | 1839 | 1839 | 2056 | 2597 | 2813 | 3138 | 2164 | 4003 | 2597 | 2164 | 6600 |
| 6 | 125 | 1045 | 1393 | 1741 | 1532 | 1184 | 1184 | 1323 | 1672 | 1811 | 2020 | 1393 | 2577 | 1672 | 1393 | 4249 |
| 7 | 125 | 1448 | 1931 | 2414 | 2124 | 1641 | 1641 | 1834 | 2317 | 2510 | 2800 | 1931 | 3572 | 2317 | 1931 | 5890 |
| 8 | 125 | 1844 | 2459 | 3074 | 2705 | 2090 | 2090 | 2336 | 2951 | 3197 | 3566 | 2459 | 4549 | 2951 | 2459 | 7500 |

Light Rust, Millscale or Loose Paint

Hard Coating

Low Profile Range

SSPC-SP 7

Tables 1141 CC

| Operating Conditions | | Consumption Rate lbs/hr of Blasting | | | | | | | | | | | | | | |
|----------------------|----------------|-------------------------------------|--------|------|-----------------------------|------|--------|------|--------------------------------|------------|--------|--------|--------------|---------|-------|------|
| | | Typical Mineral Abrasive | | | Refinery & By-Product Grits | | | | Natural or Mined Grits & Sands | | | | Manufactured | | | |
| Nozzle Size | Pressure (psi) | -25% | Median | +25% | Copper | Coal | Nickel | Iron | Olivine | Staurolite | Garnet | Silica | Zircon | Alumina | Glass | Iron |
| 6 | 90 | 789 | 1052 | 1315 | 1157 | 894 | 894 | 999 | 1262 | 1368 | 1525 | 1052 | 1946 | 1262 | 1052 | 3209 |
| 7 | 90 | 1086 | 1448 | 1810 | 1593 | 1231 | 1231 | 1376 | 1738 | 1882 | 2100 | 1448 | 2679 | 1738 | 1448 | 4416 |
| 8 | 90 | 1392 | 1856 | 2320 | 2042 | 1578 | 1578 | 1763 | 2227 | 2413 | 2691 | 1856 | 3434 | 2227 | 1856 | 5661 |
| 6 | 100 | 864 | 1152 | 1440 | 1267 | 979 | 979 | 1094 | 1382 | 1498 | 1670 | 1152 | 2131 | 1382 | 1152 | 3514 |
| 7 | 100 | 1188 | 1584 | 1980 | 1742 | 1346 | 1346 | 1505 | 1901 | 2059 | 2297 | 1584 | 2930 | 1901 | 1584 | 4831 |
| 8 | 100 | 1518 | 2024 | 2530 | 2226 | 1720 | 1720 | 1923 | 2429 | 2631 | 2935 | 2024 | 3744 | 2429 | 2024 | 6173 |
| 6 | 110 | 920 | 1226 | 1533 | 1349 | 1042 | 1042 | 1165 | 1471 | 1594 | 1778 | 1226 | 2268 | 1471 | 1226 | 3739 |
| 7 | 110 | 1274 | 1699 | 2124 | 1869 | 1444 | 1444 | 1614 | 2039 | 2209 | 2464 | 1699 | 3143 | 2039 | 1699 | 5182 |
| 8 | 110 | 1623 | 2164 | 2705 | 2380 | 1839 | 1839 | 2056 | 2597 | 2813 | 3138 | 2164 | 4003 | 2597 | 2164 | 6600 |
| 6 | 125 | 1045 | 1393 | 1741 | 1532 | 1184 | 1184 | 1323 | 1672 | 1811 | 2020 | 1393 | 2577 | 1672 | 1393 | 4249 |
| 7 | 125 | 1448 | 1931 | 2414 | 2124 | 1641 | 1641 | 1834 | 2317 | 2510 | 2800 | 1931 | 3572 | 2317 | 1931 | 5890 |
| 8 | 125 | 1844 | 2459 | 3074 | 2705 | 2090 | 2090 | 2336 | 2951 | 3197 | 3566 | 2459 | 4549 | 2951 | 2459 | 7500 |

Light Rust, Millscale or Loose Paint

Soft Coating

Low Profile Range

SSPC-SP 5

Tables 1211 CC

| Operating Conditions | | Consumption Rate lbs/hr of Blasting | | | | | | | | | | | | | | |
|----------------------|----------------|-------------------------------------|--------|------|-----------------------------|------|--------|------|--------------------------------|------------|--------|--------|--------------|---------|-------|------|
| | | Typical Mineral Abrasive | | | Refinery & By-Product Grits | | | | Natural or Mined Grits & Sands | | | | Manufactured | | | |
| Nozzle Size | Pressure (psi) | -25% | Median | +25% | Copper | Coal | Nickel | Iron | Olivine | Staurolite | Garnet | Silica | Zircon | Alumina | Glass | Iron |
| 6 | 90 | 789 | 1052 | 1315 | 1157 | 894 | 894 | 999 | 1262 | 1368 | 1525 | 1052 | 1946 | 1262 | 1052 | 3209 |
| 7 | 90 | 1086 | 1448 | 1810 | 1593 | 1231 | 1231 | 1376 | 1738 | 1882 | 2100 | 1448 | 2679 | 1738 | 1448 | 4416 |
| 8 | 90 | 1392 | 1856 | 2320 | 2042 | 1578 | 1578 | 1763 | 2227 | 2413 | 2691 | 1856 | 3434 | 2227 | 1856 | 5661 |
| 6 | 100 | 864 | 1152 | 1440 | 1267 | 979 | 979 | 1094 | 1382 | 1498 | 1670 | 1152 | 2131 | 1382 | 1152 | 3514 |
| 7 | 100 | 1188 | 1584 | 1980 | 1742 | 1346 | 1346 | 1505 | 1901 | 2059 | 2297 | 1584 | 2930 | 1901 | 1584 | 4831 |
| 8 | 100 | 1518 | 2024 | 2530 | 2226 | 1720 | 1720 | 1923 | 2429 | 2631 | 2935 | 2024 | 3744 | 2429 | 2024 | 6173 |
| 6 | 110 | 920 | 1226 | 1533 | 1349 | 1042 | 1042 | 1165 | 1471 | 1594 | 1778 | 1226 | 2268 | 1471 | 1226 | 3739 |
| 7 | 110 | 1274 | 1699 | 2124 | 1869 | 1444 | 1444 | 1614 | 2039 | 2209 | 2464 | 1699 | 3143 | 2039 | 1699 | 5182 |
| 8 | 110 | 1623 | 2164 | 2705 | 2380 | 1839 | 1839 | 2056 | 2597 | 2813 | 3138 | 2164 | 4003 | 2597 | 2164 | 6600 |
| 6 | 125 | 1045 | 1393 | 1741 | 1532 | 1184 | 1184 | 1323 | 1672 | 1811 | 2020 | 1393 | 2577 | 1672 | 1393 | 4249 |
| 7 | 125 | 1448 | 1931 | 2414 | 2124 | 1641 | 1641 | 1834 | 2317 | 2510 | 2800 | 1931 | 3572 | 2317 | 1931 | 5890 |
| 8 | 125 | 1844 | 2459 | 3074 | 2705 | 2090 | 2090 | 2336 | 2951 | 3197 | 3566 | 2459 | 4549 | 2951 | 2459 | 7500 |

Light Rust, Millscale or Loose Paint

Soft Coating

Medium Profile Range

SSPC-SP 5

Tables 1212 C C

| Operating Conditions | | Consumption Rate lbs/hr of Blasting | | | | | | | | | | | | | | |
|----------------------|----------------|-------------------------------------|--------|------|-----------------------------|------|--------|------|--------------------------------|------------|--------|--------|--------------|---------|-------|------|
| | | Typical Mineral Abrasive | | | Refinery & By-Product Grits | | | | Natural or Mined Grits & Sands | | | | Manufactured | | | |
| Nozzle Size | Pressure (psi) | -25% | Median | +25% | Copper | Coal | Nickel | Iron | Olivine | Staurolite | Garnet | Silica | Zircon | Alumina | Glass | Iron |
| 6 | 90 | 789 | 1052 | 1315 | 1157 | 894 | 894 | 999 | 1262 | 1368 | 1525 | 1052 | 1946 | 1262 | 1052 | 3209 |
| 7 | 90 | 1086 | 1448 | 1810 | 1593 | 1231 | 1231 | 1376 | 1738 | 1882 | 2100 | 1448 | 2679 | 1738 | 1448 | 4416 |
| 8 | 90 | 1392 | 1856 | 2320 | 2042 | 1578 | 1578 | 1763 | 2227 | 2413 | 2691 | 1856 | 3434 | 2227 | 1856 | 5661 |
| 6 | 100 | 864 | 1152 | 1440 | 1267 | 979 | 979 | 1094 | 1382 | 1498 | 1670 | 1152 | 2131 | 1382 | 1152 | 3514 |
| 7 | 100 | 1188 | 1584 | 1980 | 1742 | 1346 | 1346 | 1505 | 1901 | 2059 | 2297 | 1584 | 2930 | 1901 | 1584 | 4831 |
| 8 | 100 | 1518 | 2024 | 2530 | 2226 | 1720 | 1720 | 1923 | 2429 | 2631 | 2935 | 2024 | 3744 | 2429 | 2024 | 6173 |
| 6 | 110 | 920 | 1226 | 1533 | 1349 | 1042 | 1042 | 1165 | 1471 | 1594 | 1778 | 1226 | 2268 | 1471 | 1226 | 3739 |
| 7 | 110 | 1274 | 1699 | 2124 | 1869 | 1444 | 1444 | 1614 | 2039 | 2209 | 2464 | 1699 | 3143 | 2039 | 1699 | 5182 |
| 8 | 110 | 1623 | 2164 | 2705 | 2380 | 1839 | 1839 | 2056 | 2597 | 2813 | 3138 | 2164 | 4003 | 2597 | 2164 | 6600 |
| 6 | 125 | 1045 | 1393 | 1741 | 1532 | 1184 | 1184 | 1323 | 1672 | 1811 | 2020 | 1393 | 2577 | 1672 | 1393 | 4249 |
| 7 | 125 | 1448 | 1931 | 2414 | 2124 | 1641 | 1641 | 1834 | 2317 | 2510 | 2800 | 1931 | 3572 | 2317 | 1931 | 5890 |
| 8 | 125 | 1844 | 2459 | 3074 | 2705 | 2090 | 2090 | 2336 | 2951 | 3197 | 3566 | 2459 | 4549 | 2951 | 2459 | 7500 |

Light Rust, Millscale or Loose Paint

Soft Coating

High Profile Range

SSPC-SP 5

Tables 1213 CC

| Operating Conditions | | Consumption Rate lbs/hr of Blasting | | | | | | | | | | | | | | |
|----------------------|----------------|-------------------------------------|--------|------|-----------------------------|------|--------|------|--------------------------------|------------|--------|--------|--------------|---------|-------|------|
| | | Typical Mineral Abrasive | | | Refinery & By-Product Grits | | | | Natural or Mined Grits & Sands | | | | Manufactured | | | |
| Nozzle Size | Pressure (psi) | -25% | Median | +25% | Copper | Coal | Nickel | Iron | Olivine | Staurolite | Garnet | Silica | Zircon | Alumina | Glass | Iron |
| 6 | 90 | 789 | 1052 | 1315 | 1157 | 894 | 894 | 999 | 1262 | 1368 | 1525 | 1052 | 1946 | 1262 | 1052 | 3209 |
| 7 | 90 | 1086 | 1448 | 1810 | 1593 | 1231 | 1231 | 1376 | 1738 | 1882 | 2100 | 1448 | 2679 | 1738 | 1448 | 4416 |
| 8 | 90 | 1392 | 1856 | 2320 | 2042 | 1578 | 1578 | 1763 | 2227 | 2413 | 2691 | 1856 | 3434 | 2227 | 1856 | 5661 |
| 6 | 100 | 864 | 1152 | 1440 | 1267 | 979 | 979 | 1094 | 1382 | 1498 | 1670 | 1152 | 2131 | 1382 | 1152 | 3514 |
| 7 | 100 | 1188 | 1584 | 1980 | 1742 | 1346 | 1346 | 1505 | 1901 | 2059 | 2297 | 1584 | 2930 | 1901 | 1584 | 4831 |
| 8 | 100 | 1518 | 2024 | 2530 | 2226 | 1720 | 1720 | 1923 | 2429 | 2631 | 2935 | 2024 | 3744 | 2429 | 2024 | 6173 |
| 6 | 110 | 920 | 1226 | 1533 | 1349 | 1042 | 1042 | 1165 | 1471 | 1594 | 1778 | 1226 | 2268 | 1471 | 1226 | 3739 |
| 7 | 110 | 1274 | 1699 | 2124 | 1869 | 1444 | 1444 | 1614 | 2039 | 2209 | 2464 | 1699 | 3143 | 2039 | 1699 | 5182 |
| 8 | 110 | 1623 | 2164 | 2705 | 2380 | 1839 | 1839 | 2056 | 2597 | 2813 | 3138 | 2164 | 4003 | 2597 | 2164 | 6600 |
| 6 | 125 | 1045 | 1393 | 1741 | 1532 | 1184 | 1184 | 1323 | 1672 | 1811 | 2020 | 1393 | 2577 | 1672 | 1393 | 4249 |
| 7 | 125 | 1448 | 1931 | 2414 | 2124 | 1641 | 1641 | 1834 | 2317 | 2510 | 2800 | 1931 | 3572 | 2317 | 1931 | 5890 |
| 8 | 125 | 1844 | 2459 | 3074 | 2705 | 2090 | 2090 | 2336 | 2951 | 3197 | 3566 | 2459 | 4549 | 2951 | 2459 | 7500 |

Light Rust, Millscale or Loose Paint

Soft Coating

Low Profile Range

SSPC-SP 10

Tables 1221

CC

| Operating Conditions | | Consumption Rate lbs/hr of Blasting | | | | | | | | | | | | | | |
|----------------------|----------------|-------------------------------------|--------|------|-----------------------------|------|--------|------|--------------------------------|------------|--------|--------|--------------|---------|-------|------|
| | | Typical Mineral Abrasive | | | Refinery & By-Product Grits | | | | Natural or Mined Grits & Sands | | | | Manufactured | | | |
| Nozzle Size | Pressure (psi) | -25% | Median | +25% | Copper | Coal | Nickel | Iron | Olivine | Staurolite | Garnet | Silica | Zircon | Alumina | Glass | Iron |
| 6 | 90 | 789 | 1052 | 1315 | 1157 | 894 | 894 | 999 | 1262 | 1368 | 1525 | 1052 | 1946 | 1262 | 1052 | 3209 |
| 7 | 90 | 1086 | 1448 | 1810 | 1593 | 1231 | 1231 | 1376 | 1738 | 1882 | 2100 | 1448 | 2679 | 1738 | 1448 | 4416 |
| 8 | 90 | 1392 | 1856 | 2320 | 2042 | 1578 | 1578 | 1763 | 2227 | 2413 | 2691 | 1856 | 3434 | 2227 | 1856 | 5661 |
| 6 | 100 | 864 | 1152 | 1440 | 1267 | 979 | 979 | 1094 | 1382 | 1498 | 1670 | 1152 | 2131 | 1382 | 1152 | 3514 |
| 7 | 100 | 1188 | 1584 | 1980 | 1742 | 1346 | 1346 | 1505 | 1901 | 2059 | 2297 | 1584 | 2930 | 1901 | 1584 | 4831 |
| 8 | 100 | 1518 | 2024 | 2530 | 2226 | 1720 | 1720 | 1923 | 2429 | 2631 | 2935 | 2024 | 3744 | 2429 | 2024 | 6173 |
| 6 | 110 | 920 | 1226 | 1533 | 1349 | 1042 | 1042 | 1165 | 1471 | 1594 | 1778 | 1226 | 2268 | 1471 | 1226 | 3739 |
| 7 | 110 | 1274 | 1699 | 2124 | 1869 | 1444 | 1444 | 1614 | 2039 | 2209 | 2464 | 1699 | 3143 | 2039 | 1699 | 5182 |
| 8 | 110 | 1623 | 2164 | 2705 | 2380 | 1839 | 1839 | 2056 | 2597 | 2813 | 3138 | 2164 | 4003 | 2597 | 2164 | 6600 |
| 6 | 125 | 1045 | 1393 | 1741 | 1532 | 1184 | 1184 | 1323 | 1672 | 1811 | 2020 | 1393 | 2577 | 1672 | 1393 | 4249 |
| 7 | 125 | 1448 | 1931 | 2414 | 2124 | 1641 | 1641 | 1834 | 2317 | 2510 | 2800 | 1931 | 3572 | 2317 | 1931 | 5890 |
| 8 | 125 | 1844 | 2459 | 3074 | 2705 | 2090 | 2090 | 2336 | 2951 | 3197 | 3566 | 2459 | 4549 | 2951 | 2459 | 7500 |

Light Rust, Millscale or Loose Paint

Soft Coating

Medium Profile Range

SSPC-SP 10

Tables 1222 C C

| Operating Conditions | | Consumption Rate lbs/hr of Blasting | | | | | | | | | | | | | | |
|----------------------|----------------|-------------------------------------|--------|------|-----------------------------|------|--------|------|--------------------------------|------------|--------|--------|--------------|---------|-------|------|
| | | Typical Mineral Abrasive | | | Refinery & By-Product Grits | | | | Natural or Mined Grits & Sands | | | | Manufactured | | | |
| Nozzle Size | Pressure (psi) | -25% | Median | +25% | Copper | Coal | Nickel | Iron | Olivine | Staurolite | Garnet | Silica | Zircon | Alumina | Glass | Iron |
| 6 | 90 | 789 | 1052 | 1315 | 1157 | 894 | 894 | 999 | 1262 | 1368 | 1525 | 1052 | 1946 | 1262 | 1052 | 3209 |
| 7 | 90 | 1086 | 1448 | 1810 | 1593 | 1231 | 1231 | 1376 | 1738 | 1882 | 2100 | 1448 | 2679 | 1738 | 1448 | 4416 |
| 8 | 90 | 1392 | 1856 | 2320 | 2042 | 1578 | 1578 | 1763 | 2227 | 2413 | 2691 | 1856 | 3434 | 2227 | 1856 | 5661 |
| 6 | 100 | 864 | 1152 | 1440 | 1267 | 979 | 979 | 1094 | 1382 | 1498 | 1670 | 1152 | 2131 | 1382 | 1152 | 3514 |
| 7 | 100 | 1188 | 1584 | 1980 | 1742 | 1346 | 1346 | 1505 | 1901 | 2059 | 2297 | 1584 | 2930 | 1901 | 1584 | 4831 |
| 8 | 100 | 1518 | 2024 | 2530 | 2226 | 1720 | 1720 | 1923 | 2429 | 2631 | 2935 | 2024 | 3744 | 2429 | 2024 | 6173 |
| 6 | 110 | 920 | 1226 | 1533 | 1349 | 1042 | 1042 | 1165 | 1471 | 1594 | 1778 | 1226 | 2268 | 1471 | 1226 | 3739 |
| 7 | 110 | 1274 | 1699 | 2124 | 1869 | 1444 | 1444 | 1614 | 2039 | 2209 | 2464 | 1699 | 3143 | 2039 | 1699 | 5182 |
| 8 | 110 | 1623 | 2164 | 2705 | 2380 | 1839 | 1839 | 2056 | 2597 | 2813 | 3138 | 2164 | 4003 | 2597 | 2164 | 6600 |
| 6 | 125 | 1045 | 1393 | 1741 | 1532 | 1184 | 1184 | 1323 | 1672 | 1811 | 2020 | 1393 | 2577 | 1672 | 1393 | 4249 |
| 7 | 125 | 1448 | 1931 | 2414 | 2124 | 1641 | 1641 | 1834 | 2317 | 2510 | 2800 | 1931 | 3572 | 2317 | 1931 | 5890 |
| 8 | 125 | 1844 | 2459 | 3074 | 2705 | 2090 | 2090 | 2336 | 2951 | 3197 | 3566 | 2459 | 4549 | 2951 | 2459 | 7500 |

Light Rust, Millscale or Loose Paint

Soft Coating

High Profile Range

SSPC-SP 10

Tables 1223 CC

| Operating Conditions | | Consumption Rate lbs/hr of Blasting | | | | | | | | | | | | | | |
|----------------------|----------------|-------------------------------------|--------|------|-----------------------------|------|--------|------|--------------------------------|------------|--------|--------|--------------|---------|-------|------------|
| | | Typical Mineral Abrasive | | | Refinery & By-Product Grits | | | | Natural or Mined Grits & Sands | | | | Manufactured | | | |
| Nozzle Size | Pressure (psi) | -25% | Median | +25% | Copper | Coal | Nickel | Iron | Olivine | Staurolite | Garnet | Silica | Zircon | Alumina | Glass | Steel Iron |
| 6 | 90 | 789 | 1052 | 1315 | 1157 | 894 | 894 | 999 | 1262 | 1368 | 1525 | 1052 | 1946 | 1262 | 1052 | 3209 |
| 7 | 90 | 1086 | 1448 | 1810 | 1593 | 1231 | 1231 | 1376 | 1738 | 1882 | 2100 | 1448 | 2679 | 1738 | 1448 | 4416 |
| 8 | 90 | 1392 | 1856 | 2320 | 2042 | 1578 | 1578 | 1763 | 2227 | 2413 | 2691 | 1856 | 3434 | 2227 | 1856 | 5661 |
| 6 | 100 | 864 | 1152 | 1440 | 1267 | 979 | 979 | 1094 | 1382 | 1498 | 1670 | 1152 | 2131 | 1382 | 1152 | 3514 |
| 7 | 100 | 1188 | 1584 | 1980 | 1742 | 1346 | 1346 | 1505 | 1901 | 2059 | 2297 | 1584 | 2930 | 1901 | 1584 | 4831 |
| 8 | 100 | 1518 | 2024 | 2530 | 2226 | 1720 | 1720 | 1923 | 2429 | 2631 | 2935 | 2024 | 3744 | 2429 | 2024 | 6173 |
| 6 | 110 | 920 | 1226 | 1533 | 1349 | 1042 | 1042 | 1165 | 1471 | 1594 | 1778 | 1226 | 2268 | 1471 | 1226 | 3739 |
| 7 | 110 | 1274 | 1699 | 2124 | 1869 | 1444 | 1444 | 1614 | 2039 | 2209 | 2464 | 1699 | 3143 | 2039 | 1699 | 5182 |
| 8 | 110 | 1623 | 2164 | 2705 | 2380 | 1839 | 1839 | 2056 | 2597 | 2813 | 3138 | 2164 | 4003 | 2597 | 2164 | 6600 |
| 6 | 125 | 1045 | 1393 | 1741 | 1532 | 1184 | 1184 | 1323 | 1672 | 1811 | 2020 | 1393 | 2577 | 1672 | 1393 | 4249 |
| 7 | 125 | 1448 | 1931 | 2414 | 2124 | 1641 | 1641 | 1834 | 2317 | 2510 | 2800 | 1931 | 3572 | 2317 | 1931 | 5890 |
| 8 | 125 | 1844 | 2459 | 3074 | 2705 | 2090 | 2090 | 2336 | 2951 | 3197 | 3566 | 2459 | 4549 | 2951 | 2459 | 7500 |

Light Rust, Millscale or Loose Paint

Soft Coating

Low Profile Range

SSPC-SP 6

Tables 1231 CC

| Operating Conditions | | Consumption Rate lbs/hr of Blasting | | | | | | | | | | | | | | |
|----------------------|----------------|-------------------------------------|--------|------|-----------------------------|------|--------|------|--------------------------------|------------|--------|--------|--------------|---------|-------|------|
| | | Typical Mineral Abrasive | | | Refinery & By-Product Grits | | | | Natural or Mined Grits & Sands | | | | Manufactured | | | |
| Nozzle Size | Pressure (psi) | -25% | Median | +25% | Copper | Coal | Nickel | Iron | Olivine | Staurolite | Garnet | Silica | Zircon | Alumina | Glass | Iron |
| 6 | 90 | 789 | 1052 | 1315 | 1157 | 894 | 894 | 999 | 1262 | 1368 | 1525 | 1052 | 1946 | 1262 | 1052 | 3209 |
| 7 | 90 | 1086 | 1448 | 1810 | 1593 | 1231 | 1231 | 1376 | 1738 | 1882 | 2100 | 1448 | 2679 | 1738 | 1448 | 4416 |
| 8 | 90 | 1392 | 1856 | 2320 | 2042 | 1578 | 1578 | 1763 | 2227 | 2413 | 2691 | 1856 | 3434 | 2227 | 1856 | 5661 |
| 6 | 100 | 864 | 1152 | 1440 | 1267 | 979 | 979 | 1094 | 1382 | 1498 | 1670 | 1152 | 2131 | 1382 | 1152 | 3514 |
| 7 | 100 | 1188 | 1584 | 1980 | 1742 | 1346 | 1346 | 1505 | 1901 | 2059 | 2297 | 1584 | 2930 | 1901 | 1584 | 4831 |
| 8 | 100 | 1518 | 2024 | 2530 | 2226 | 1720 | 1720 | 1923 | 2429 | 2631 | 2935 | 2024 | 3744 | 2429 | 2024 | 6173 |
| 6 | 110 | 920 | 1226 | 1533 | 1349 | 1042 | 1042 | 1165 | 1471 | 1594 | 1778 | 1226 | 2268 | 1471 | 1226 | 3739 |
| 7 | 110 | 1274 | 1699 | 2124 | 1869 | 1444 | 1444 | 1614 | 2039 | 2209 | 2464 | 1699 | 3143 | 2039 | 1699 | 5182 |
| 8 | 110 | 1623 | 2164 | 2705 | 2380 | 1839 | 1839 | 2056 | 2597 | 2813 | 3138 | 2164 | 4003 | 2597 | 2164 | 6600 |
| 6 | 125 | 1045 | 1393 | 1741 | 1532 | 1184 | 1184 | 1323 | 1672 | 1811 | 2020 | 1393 | 2577 | 1672 | 1393 | 4249 |
| 7 | 125 | 1448 | 1931 | 2414 | 2124 | 1641 | 1641 | 1834 | 2317 | 2510 | 2800 | 1931 | 3572 | 2317 | 1931 | 5890 |
| 8 | 125 | 1844 | 2459 | 3074 | 2705 | 2090 | 2090 | 2336 | 2951 | 3197 | 3566 | 2459 | 4549 | 2951 | 2459 | 7500 |

Light Rust, Millscale or Loose Paint

Soft Coating

Medium Profile Range

SSPC-SP 6

Tables 1232 C C

| Operating Conditions | | Consumption Rate lbs/hr of Blasting | | | | | | | | | | | | | | |
|----------------------|----------------|-------------------------------------|--------|------|-----------------------------|------|--------|------|--------------------------------|------------|--------|--------|--------------|---------|-------|------|
| | | Typical Mineral Abrasive | | | Refinery & By-Product Grits | | | | Natural or Mined Grits & Sands | | | | Manufactured | | | |
| Nozzle Size | Pressure (psi) | -25% | Median | +25% | Copper | Coal | Nickel | Iron | Olivine | Staurolite | Garnet | Silica | Zircon | Alumina | Glass | Iron |
| 6 | 90 | 789 | 1052 | 1315 | 1157 | 894 | 894 | 999 | 1262 | 1368 | 1525 | 1052 | 1946 | 1262 | 1052 | 3209 |
| 7 | 90 | 1086 | 1448 | 1810 | 1593 | 1231 | 1231 | 1376 | 1738 | 1882 | 2100 | 1448 | 2679 | 1738 | 1448 | 4416 |
| 8 | 90 | 1392 | 1856 | 2320 | 2042 | 1578 | 1578 | 1763 | 2227 | 2413 | 2691 | 1856 | 3434 | 2227 | 1856 | 5661 |
| 6 | 100 | 864 | 1152 | 1440 | 1267 | 979 | 979 | 1094 | 1382 | 1498 | 1670 | 1152 | 2131 | 1382 | 1152 | 3514 |
| 7 | 100 | 1188 | 1584 | 1980 | 1742 | 1346 | 1346 | 1505 | 1901 | 2059 | 2297 | 1584 | 2930 | 1901 | 1584 | 4831 |
| 8 | 100 | 1518 | 2024 | 2530 | 2226 | 1720 | 1720 | 1923 | 2429 | 2631 | 2935 | 2024 | 3744 | 2429 | 2024 | 6173 |
| 6 | 110 | 920 | 1226 | 1533 | 1349 | 1042 | 1042 | 1165 | 1471 | 1594 | 1778 | 1226 | 2268 | 1471 | 1226 | 3739 |
| 7 | 110 | 1274 | 1699 | 2124 | 1869 | 1444 | 1444 | 1614 | 2039 | 2209 | 2464 | 1699 | 3143 | 2039 | 1699 | 5182 |
| 8 | 110 | 1623 | 2164 | 2705 | 2380 | 1839 | 1839 | 2056 | 2597 | 2813 | 3138 | 2164 | 4003 | 2597 | 2164 | 6600 |
| 6 | 125 | 1045 | 1393 | 1741 | 1532 | 1184 | 1184 | 1323 | 1672 | 1811 | 2020 | 1393 | 2577 | 1672 | 1393 | 4249 |
| 7 | 125 | 1448 | 1931 | 2414 | 2124 | 1641 | 1641 | 1834 | 2317 | 2510 | 2800 | 1931 | 3572 | 2317 | 1931 | 5890 |
| 8 | 125 | 1844 | 2459 | 3074 | 2705 | 2090 | 2090 | 2336 | 2951 | 3197 | 3566 | 2459 | 4549 | 2951 | 2459 | 7500 |

Light Rust, Millscale or Loose Paint

Soft Coating

High Profile Range

SSPC-SP 6

Tables 1233 CC

| Operating Conditions | | Consumption Rate lbs/hr of Blasting | | | | | | | | | | | | | | |
|----------------------|----------------|-------------------------------------|--------|------|-----------------------------|------|--------|------|--------------------------------|------------|--------|--------|--------------|---------|-------|------------|
| | | Typical Mineral Abrasive | | | Refinery & By-Product Grits | | | | Natural or Mined Grits & Sands | | | | Manufactured | | | |
| Nozzle Size | Pressure (psi) | -25% | Median | +25% | Copper | Coal | Nickel | Iron | Olivine | Staurolite | Garnet | Silica | Zircon | Alumina | Glass | Steel Iron |
| 6 | 90 | 789 | 1052 | 1315 | 1157 | 894 | 894 | 999 | 1262 | 1368 | 1525 | 1052 | 1946 | 1262 | 1052 | 3209 |
| 7 | 90 | 1086 | 1448 | 1810 | 1593 | 1231 | 1231 | 1376 | 1738 | 1882 | 2100 | 1448 | 2679 | 1738 | 1448 | 4416 |
| 8 | 90 | 1392 | 1856 | 2320 | 2042 | 1578 | 1578 | 1763 | 2227 | 2413 | 2691 | 1856 | 3434 | 2227 | 1856 | 5661 |
| 6 | 100 | 864 | 1152 | 1440 | 1267 | 979 | 979 | 1094 | 1382 | 1498 | 1670 | 1152 | 2131 | 1382 | 1152 | 3514 |
| 7 | 100 | 1188 | 1584 | 1980 | 1742 | 1346 | 1346 | 1505 | 1901 | 2059 | 2297 | 1584 | 2930 | 1901 | 1584 | 4831 |
| 8 | 100 | 1518 | 2024 | 2530 | 2226 | 1720 | 1720 | 1923 | 2429 | 2631 | 2935 | 2024 | 3744 | 2429 | 2024 | 6173 |
| 6 | 110 | 920 | 1226 | 1533 | 1349 | 1042 | 1042 | 1165 | 1471 | 1594 | 1778 | 1226 | 2268 | 1471 | 1226 | 3739 |
| 7 | 110 | 1274 | 1699 | 2124 | 1869 | 1444 | 1444 | 1614 | 2039 | 2209 | 2464 | 1699 | 3143 | 2039 | 1699 | 5182 |
| 8 | 110 | 1623 | 2164 | 2705 | 2380 | 1839 | 1839 | 2056 | 2597 | 2813 | 3138 | 2164 | 4003 | 2597 | 2164 | 6600 |
| 6 | 125 | 1045 | 1393 | 1741 | 1532 | 1184 | 1184 | 1323 | 1672 | 1811 | 2020 | 1393 | 2577 | 1672 | 1393 | 4249 |
| 7 | 125 | 1448 | 1931 | 2414 | 2124 | 1641 | 1641 | 1834 | 2317 | 2510 | 2800 | 1931 | 3572 | 2317 | 1931 | 5890 |
| 8 | 125 | 1844 | 2459 | 3074 | 2705 | 2090 | 2090 | 2336 | 2951 | 3197 | 3566 | 2459 | 4549 | 2951 | 2459 | 7500 |

Light Rust, Millscale or Loose Paint

Soft Coating

Low Profile Range

SSPC-SP 7

Tables 1241 CC

| Operating Conditions | | Consumption Rate lbs/hr of Blasting | | | | | | | | | | | | | | |
|----------------------|----------------|-------------------------------------|--------|------|-----------------------------|------|--------|------|--------------------------------|------------|--------|--------|--------------|---------|-------|------|
| | | Typical Mineral Abrasive | | | Refinery & By-Product Grits | | | | Natural or Mined Grits & Sands | | | | Manufactured | | | |
| Nozzle Size | Pressure (psi) | -25% | Median | +25% | Copper | Coal | Nickel | Iron | Olivine | Staurolite | Garnet | Silica | Zircon | Alumina | Glass | Iron |
| 6 | 90 | 789 | 1052 | 1315 | 1157 | 894 | 894 | 999 | 1262 | 1368 | 1525 | 1052 | 1946 | 1262 | 1052 | 3209 |
| 7 | 90 | 1086 | 1448 | 1810 | 1593 | 1231 | 1231 | 1376 | 1738 | 1882 | 2100 | 1448 | 2679 | 1738 | 1448 | 4416 |
| 8 | 90 | 1392 | 1856 | 2320 | 2042 | 1578 | 1578 | 1763 | 2227 | 2413 | 2691 | 1856 | 3434 | 2227 | 1856 | 5661 |
| 6 | 100 | 864 | 1152 | 1440 | 1267 | 979 | 979 | 1094 | 1382 | 1498 | 1670 | 1152 | 2131 | 1382 | 1152 | 3514 |
| 7 | 100 | 1188 | 1584 | 1980 | 1742 | 1346 | 1346 | 1505 | 1901 | 2059 | 2297 | 1584 | 2930 | 1901 | 1584 | 4831 |
| 8 | 100 | 1518 | 2024 | 2530 | 2226 | 1720 | 1720 | 1923 | 2429 | 2631 | 2935 | 2024 | 3744 | 2429 | 2024 | 6173 |
| 6 | 110 | 920 | 1226 | 1533 | 1349 | 1042 | 1042 | 1165 | 1471 | 1594 | 1778 | 1226 | 2268 | 1471 | 1226 | 3739 |
| 7 | 110 | 1274 | 1699 | 2124 | 1869 | 1444 | 1444 | 1614 | 2039 | 2209 | 2464 | 1699 | 3143 | 2039 | 1699 | 5182 |
| 8 | 110 | 1623 | 2164 | 2705 | 2380 | 1839 | 1839 | 2056 | 2597 | 2813 | 3138 | 2164 | 4003 | 2597 | 2164 | 6600 |
| 6 | 125 | 1045 | 1393 | 1741 | 1532 | 1184 | 1184 | 1323 | 1672 | 1811 | 2020 | 1393 | 2577 | 1672 | 1393 | 4249 |
| 7 | 125 | 1448 | 1931 | 2414 | 2124 | 1641 | 1641 | 1834 | 2317 | 2510 | 2800 | 1931 | 3572 | 2317 | 1931 | 5890 |
| 8 | 125 | 1844 | 2459 | 3074 | 2705 | 2090 | 2090 | 2336 | 2951 | 3197 | 3566 | 2459 | 4549 | 2951 | 2459 | 7500 |

Tight Rust or Millscale

Hard Coating

Low Profile Range

SSPC-SP 5

Tables 2111 CC

| Operating Conditions | | Consumption Rate lbs/hr of Blasting | | | | | | | | | | | | | | |
|----------------------|----------------|-------------------------------------|--------|------|-----------------------------|------|--------|------|--------------------------------|------------|--------|--------|--------------|---------|-------|------|
| | | Typical Mineral Abrasive | | | Refinery & By-Product Grits | | | | Natural or Mined Grits & Sands | | | | Manufactured | | | |
| Nozzle Size | Pressure (psi) | -25% | Median | +25% | Copper | Coal | Nickel | Iron | Olivine | Staurolite | Garnet | Silica | Zircon | Alumina | Glass | |
| 6 | 90 | 789 | 1052 | 1315 | 1157 | 894 | 894 | 999 | 1262 | 1368 | 1525 | 1052 | 1946 | 1262 | 1052 | 3209 |
| 7 | 90 | 1086 | 1448 | 1810 | 1593 | 1231 | 1231 | 1376 | 1738 | 1882 | 2100 | 1448 | 2679 | 1738 | 1448 | 4416 |
| 8 | 90 | 1392 | 1856 | 2320 | 2042 | 1578 | 1578 | 1763 | 2227 | 2413 | 2691 | 1856 | 3434 | 2227 | 1856 | 5661 |
| 6 | 100 | 864 | 1152 | 1440 | 1267 | 979 | 979 | 1094 | 1382 | 1498 | 1670 | 1152 | 2131 | 1382 | 1152 | 3514 |
| 7 | 100 | 1188 | 1584 | 1980 | 1742 | 1346 | 1346 | 1505 | 1901 | 2059 | 2297 | 1584 | 2930 | 1901 | 1584 | 4831 |
| 8 | 100 | 1518 | 2024 | 2530 | 2226 | 1720 | 1720 | 1923 | 2429 | 2631 | 2935 | 2024 | 3744 | 2429 | 2024 | 6173 |
| 6 | 110 | 920 | 1226 | 1533 | 1349 | 1042 | 1042 | 1165 | 1471 | 1594 | 1778 | 1226 | 2268 | 1471 | 1226 | 3739 |
| 7 | 110 | 1274 | 1699 | 2124 | 1869 | 1444 | 1444 | 1614 | 2039 | 2209 | 2464 | 1699 | 3143 | 2039 | 1699 | 5182 |
| 8 | 110 | 1623 | 2164 | 2705 | 2380 | 1839 | 1839 | 2056 | 2597 | 2813 | 3138 | 2164 | 4003 | 2597 | 2164 | 6600 |
| 6 | 125 | 1045 | 1393 | 1741 | 1532 | 1184 | 1184 | 1323 | 1672 | 1811 | 2020 | 1393 | 2577 | 1672 | 1393 | 4249 |
| 7 | 125 | 1448 | 1931 | 2414 | 2124 | 1641 | 1641 | 1834 | 2317 | 2510 | 2800 | 1931 | 3572 | 2317 | 1931 | 5890 |
| 8 | 125 | 1844 | 2459 | 3074 | 2705 | 2090 | 2090 | 2336 | 2951 | 3197 | 3566 | 2459 | 4549 | 2951 | 2459 | 7500 |

Tight Rust or Millscale

Hard Coating

Medium Profile Range

SSPC-SP 5

Tables 2112 CC

| Operating Conditions | | Consumption Rate lbs/hr of Blasting | | | | | | | | | | | | | | |
|----------------------|----------------|-------------------------------------|--------|------|-----------------------------|------|--------|------|--------------------------------|------------|--------|--------|--------------|---------|-------|------|
| | | Typical Mineral Abrasive | | | Refinery & By-Product Grits | | | | Natural or Mined Grits & Sands | | | | Manufactured | | | |
| Nozzle Size | Pressure (psi) | -25% | Median | +25% | Copper | Coal | Nickel | Iron | Olivine | Staurolite | Garnet | Silica | Zircon | Alumina | Glass | Iron |
| 6 | 90 | 789 | 1052 | 1315 | 1157 | 894 | 894 | 999 | 1262 | 1368 | 1525 | 1052 | 1946 | 1262 | 1052 | 3209 |
| 7 | 90 | 1086 | 1448 | 1810 | 1593 | 1231 | 1231 | 1376 | 1738 | 1882 | 2100 | 1448 | 2679 | 1738 | 1448 | 4416 |
| 8 | 90 | 1392 | 1856 | 2320 | 2042 | 1578 | 1578 | 1763 | 2227 | 2413 | 2691 | 1856 | 3434 | 2227 | 1856 | 5661 |
| 6 | 100 | 864 | 1152 | 1440 | 1267 | 979 | 979 | 1094 | 1382 | 1498 | 1670 | 1152 | 2131 | 1382 | 1152 | 3514 |
| 7 | 100 | 1188 | 1584 | 1980 | 1742 | 1346 | 1346 | 1505 | 1901 | 2059 | 2297 | 1584 | 2930 | 1901 | 1584 | 4831 |
| 8 | 100 | 1518 | 2024 | 2530 | 2226 | 1720 | 1720 | 1923 | 2429 | 2631 | 2935 | 2024 | 3744 | 2429 | 2024 | 6173 |
| 6 | 110 | 920 | 1226 | 1533 | 1349 | 1042 | 1042 | 1165 | 1471 | 1594 | 1778 | 1226 | 2268 | 1471 | 1226 | 3739 |
| 7 | 110 | 1274 | 1699 | 2124 | 1869 | 1444 | 1444 | 1614 | 2039 | 2209 | 2464 | 1699 | 3143 | 2039 | 1699 | 5182 |
| 8 | 110 | 1623 | 2164 | 2705 | 2380 | 1839 | 1839 | 2056 | 2597 | 2813 | 3138 | 2164 | 4003 | 2597 | 2164 | 6600 |
| 6 | 125 | 1045 | 1393 | 1741 | 1532 | 1184 | 1184 | 1323 | 1672 | 1811 | 2020 | 1393 | 2577 | 1672 | 1393 | 4249 |
| 7 | 125 | 1448 | 1931 | 2414 | 2124 | 1641 | 1641 | 1834 | 2317 | 2510 | 2800 | 1931 | 3572 | 2317 | 1931 | 5890 |
| 8 | 125 | 1844 | 2459 | 3074 | 2705 | 2090 | 2090 | 2336 | 2951 | 3197 | 3566 | 2459 | 4549 | 2951 | 2459 | 7500 |

Tight Rust or Millscale

Hard Coating

High Profile Range

SSPC-SP 5

Tables 2113 CC

| Operating Conditions | | Consumption Rate lbs/hr of Blasting | | | | | | | | | | | | | | |
|----------------------|----------------|-------------------------------------|--------|------|-----------------------------|------|--------|------|--------------------------------|------------|--------|--------|--------------|---------|-------|------|
| | | Typical Mineral Abrasive | | | Refinery & By-Product Grits | | | | Natural or Mined Grits & Sands | | | | Manufactured | | | |
| Nozzle Size | Pressure (psi) | -25% | Median | +25% | Copper | Coal | Nickel | Iron | Olivine | Staurolite | Garnet | Silica | Zircon | Alumina | Glass | Iron |
| 6 | 90 | 789 | 1052 | 1315 | 1157 | 894 | 894 | 999 | 1262 | 1368 | 1525 | 1052 | 1946 | 1262 | 1052 | 3209 |
| 7 | 90 | 1086 | 1448 | 1810 | 1593 | 1231 | 1231 | 1376 | 1738 | 1882 | 2100 | 1448 | 2679 | 1738 | 1448 | 4416 |
| 8 | 90 | 1392 | 1856 | 2320 | 2042 | 1578 | 1578 | 1763 | 2227 | 2413 | 2691 | 1856 | 3434 | 2227 | 1856 | 5661 |
| 6 | 100 | 864 | 1152 | 1440 | 1267 | 979 | 979 | 1094 | 1382 | 1498 | 1670 | 1152 | 2131 | 1382 | 1152 | 3514 |
| 7 | 100 | 1188 | 1584 | 1980 | 1742 | 1346 | 1346 | 1505 | 1901 | 2059 | 2297 | 1584 | 2930 | 1901 | 1584 | 4831 |
| 8 | 100 | 1518 | 2024 | 2530 | 2226 | 1720 | 1720 | 1923 | 2429 | 2631 | 2935 | 2024 | 3744 | 2429 | 2024 | 6173 |
| 6 | 110 | 920 | 1226 | 1533 | 1349 | 1042 | 1042 | 1165 | 1471 | 1594 | 1778 | 1226 | 2268 | 1471 | 1226 | 3739 |
| 7 | 110 | 1274 | 1699 | 2124 | 1869 | 1444 | 1444 | 1614 | 2039 | 2209 | 2464 | 1699 | 3143 | 2039 | 1699 | 5182 |
| 8 | 110 | 1623 | 2164 | 2705 | 2380 | 1839 | 1839 | 2056 | 2597 | 2813 | 3138 | 2164 | 4003 | 2597 | 2164 | 6600 |
| 6 | 125 | 1045 | 1393 | 1741 | 1532 | 1184 | 1184 | 1323 | 1672 | 1811 | 2020 | 1393 | 2577 | 1672 | 1393 | 4249 |
| 7 | 125 | 1448 | 1931 | 2414 | 2124 | 1641 | 1641 | 1834 | 2317 | 2510 | 2800 | 1931 | 3572 | 2317 | 1931 | 5890 |
| 8 | 125 | 1844 | 2459 | 3074 | 2705 | 2090 | 2090 | 2336 | 2951 | 3197 | 3566 | 2459 | 4549 | 2951 | 2459 | 7500 |

Tight Rust or Millscale

Hard Coating

Low Profile Range

SSPC-SP 10

Tables 2121 CC

| Operating Conditions | | Consumption Rate lbs/hr of Blasting | | | | | | | | | | | | | | |
|----------------------|----------------|-------------------------------------|--------|------|-----------------------------|------|--------|------|--------------------------------|------------|--------|--------|--------------|---------|-------|------|
| | | Typical Mineral Abrasive | | | Refinery & By-Product Grits | | | | Natural or Mined Grits & Sands | | | | Manufactured | | | |
| Nozzle Size | Pressure (psi) | -25% | Median | +25% | Copper | Coal | Nickel | Iron | Olivine | Staurolite | Garnet | Silica | Zircon | Alumina | Glass | Iron |
| 6 | 90 | 789 | 1052 | 1315 | 1157 | 894 | 894 | 999 | 1262 | 1368 | 1525 | 1052 | 1946 | 1262 | 1052 | 3209 |
| 7 | 90 | 1086 | 1448 | 1810 | 1593 | 1231 | 1231 | 1376 | 1738 | 1882 | 2100 | 1448 | 2679 | 1738 | 1448 | 4416 |
| 8 | 90 | 1392 | 1856 | 2320 | 2042 | 1578 | 1578 | 1763 | 2227 | 2413 | 2691 | 1856 | 3434 | 2227 | 1856 | 5661 |
| 6 | 100 | 864 | 1152 | 1440 | 1267 | 979 | 979 | 1094 | 1382 | 1498 | 1670 | 1152 | 2131 | 1382 | 1152 | 3514 |
| 7 | 100 | 1188 | 1584 | 1980 | 1742 | 1346 | 1346 | 1505 | 1901 | 2059 | 2297 | 1584 | 2930 | 1901 | 1584 | 4831 |
| 8 | 100 | 1518 | 2024 | 2530 | 2226 | 1720 | 1720 | 1923 | 2429 | 2631 | 2935 | 2024 | 3744 | 2429 | 2024 | 6173 |
| 6 | 110 | 920 | 1226 | 1533 | 1349 | 1042 | 1042 | 1165 | 1471 | 1594 | 1778 | 1226 | 2268 | 1471 | 1226 | 3739 |
| 7 | 110 | 1274 | 1699 | 2124 | 1869 | 1444 | 1444 | 1614 | 2039 | 2209 | 2464 | 1699 | 3143 | 2039 | 1699 | 5182 |
| 8 | 110 | 1623 | 2164 | 2705 | 2380 | 1839 | 1839 | 2056 | 2597 | 2813 | 3138 | 2164 | 4003 | 2597 | 2164 | 6600 |
| 6 | 125 | 1045 | 1393 | 1741 | 1532 | 1184 | 1184 | 1323 | 1672 | 1811 | 2020 | 1393 | 2577 | 1672 | 1393 | 4249 |
| 7 | 125 | 1448 | 1931 | 2414 | 2124 | 1641 | 1641 | 1834 | 2317 | 2510 | 2800 | 1931 | 3572 | 2317 | 1931 | 5890 |
| 8 | 125 | 1844 | 2459 | 3074 | 2705 | 2090 | 2090 | 2336 | 2951 | 3197 | 3566 | 2459 | 4549 | 2951 | 2459 | 7500 |

Tight Rust or Millscale

Hard Coating

Medium Profile Range

SSPC-SP 10

Tables 2122

CC

| Operating Conditions | | Consumption Rate lbs/hr of Blasting | | | | | | | | | | | | | | |
|----------------------|----------------|-------------------------------------|--------|------|-----------------------------|------|--------|------|--------------------------------|------------|--------|--------|--------------|---------|-------|------|
| | | Typical Mineral Abrasive | | | Refinery & By-Product Grits | | | | Natural or Mined Grits & Sands | | | | Manufactured | | | |
| Nozzle Size | Pressure (psi) | -25% | Median | +25% | Copper | Coal | Nickel | Iron | Olivine | Staurolite | Garnet | Silica | Zircon | Alumina | Glass | Iron |
| 6 | 90 | 789 | 1052 | 1315 | 1157 | 894 | 894 | 999 | 1262 | 1368 | 1525 | 1052 | 1946 | 1262 | 1052 | 3209 |
| 7 | 90 | 1086 | 1448 | 1810 | 1593 | 1231 | 1231 | 1376 | 1738 | 1882 | 2100 | 1448 | 2679 | 1738 | 1448 | 4416 |
| 8 | 90 | 1392 | 1856 | 2320 | 2042 | 1578 | 1578 | 1763 | 2227 | 2413 | 2691 | 1856 | 3434 | 2227 | 1856 | 5661 |
| 6 | 100 | 864 | 1152 | 1440 | 1267 | 979 | 979 | 1094 | 1382 | 1498 | 1670 | 1152 | 2131 | 1382 | 1152 | 3514 |
| 7 | 100 | 1188 | 1584 | 1980 | 1742 | 1346 | 1346 | 1505 | 1901 | 2059 | 2297 | 1584 | 2930 | 1901 | 1584 | 4831 |
| 8 | 100 | 1518 | 2024 | 2530 | 2226 | 1720 | 1720 | 1923 | 2429 | 2631 | 2935 | 2024 | 3744 | 2429 | 2024 | 6173 |
| 6 | 110 | 920 | 1226 | 1533 | 1349 | 1042 | 1042 | 1165 | 1471 | 1594 | 1778 | 1226 | 2268 | 1471 | 1226 | 3739 |
| 7 | 110 | 1274 | 1699 | 2124 | 1869 | 1444 | 1444 | 1614 | 2039 | 2209 | 2464 | 1699 | 3143 | 2039 | 1699 | 5182 |
| 8 | 110 | 1623 | 2164 | 2705 | 2380 | 1839 | 1839 | 2056 | 2597 | 2813 | 3138 | 2164 | 4003 | 2597 | 2164 | 6600 |
| 6 | 125 | 1045 | 1393 | 1741 | 1532 | 1184 | 1184 | 1323 | 1672 | 1811 | 2020 | 1393 | 2577 | 1672 | 1393 | 4249 |
| 7 | 125 | 1448 | 1931 | 2414 | 2124 | 1641 | 1641 | 1834 | 2317 | 2510 | 2800 | 1931 | 3572 | 2317 | 1931 | 5890 |
| 8 | 125 | 1844 | 2459 | 3074 | 2705 | 2090 | 2090 | 2336 | 2951 | 3197 | 3566 | 2459 | 4549 | 2951 | 2459 | 7500 |

Tight Rust or Millscale

Hard Coating

High Profile Range

SSPC-SP 10

Tables 2123

CC

| Operating Conditions | | Consumption Rate lbs/hr of Blasting | | | | | | | | | | | | | | |
|----------------------|----------------|-------------------------------------|--------|------|-----------------------------|------|--------|------|--------------------------------|------------|--------|--------|--------------|---------|-------|------|
| | | Typical Mineral Abrasive | | | Refinery & By-Product Grits | | | | Natural or Mined Grits & Sands | | | | Manufactured | | | |
| Nozzle Size | Pressure (psi) | -25% | Median | +25% | Copper | Coal | Nickel | Iron | Olivine | Staurolite | Garnet | Silica | Zircon | Alumina | Glass | Iron |
| 6 | 90 | 789 | 1052 | 1315 | 1157 | 894 | 894 | 999 | 1262 | 1368 | 1525 | 1052 | 1946 | 1262 | 1052 | 3209 |
| 7 | 90 | 1086 | 1448 | 1810 | 1593 | 1231 | 1231 | 1376 | 1738 | 1882 | 2100 | 1448 | 2679 | 1738 | 1448 | 4416 |
| 8 | 90 | 1392 | 1856 | 2320 | 2042 | 1578 | 1578 | 1763 | 2227 | 2413 | 2691 | 1856 | 3434 | 2227 | 1856 | 5661 |
| 6 | 100 | 864 | 1152 | 1440 | 1267 | 979 | 979 | 1094 | 1382 | 1498 | 1670 | 1152 | 2131 | 1382 | 1152 | 3514 |
| 7 | 100 | 1188 | 1584 | 1980 | 1742 | 1346 | 1346 | 1505 | 1901 | 2059 | 2297 | 1584 | 2930 | 1901 | 1584 | 4831 |
| 8 | 100 | 1518 | 2024 | 2530 | 2226 | 1720 | 1720 | 1923 | 2429 | 2631 | 2935 | 2024 | 3744 | 2429 | 2024 | 6173 |
| 6 | 110 | 920 | 1226 | 1533 | 1349 | 1042 | 1042 | 1165 | 1471 | 1594 | 1778 | 1226 | 2268 | 1471 | 1226 | 3739 |
| 7 | 110 | 1274 | 1699 | 2124 | 1869 | 1444 | 1444 | 1614 | 2039 | 2209 | 2464 | 1699 | 3143 | 2039 | 1699 | 5182 |
| 8 | 110 | 1623 | 2164 | 2705 | 2380 | 1839 | 1839 | 2056 | 2597 | 2813 | 3138 | 2164 | 4003 | 2597 | 2164 | 6600 |
| 6 | 125 | 1045 | 1393 | 1741 | 1532 | 1184 | 1184 | 1323 | 1672 | 1811 | 2020 | 1393 | 2577 | 1672 | 1393 | 4249 |
| 7 | 125 | 1448 | 1931 | 2414 | 2124 | 1641 | 1641 | 1834 | 2317 | 2510 | 2800 | 1931 | 3572 | 2317 | 1931 | 5890 |
| 8 | 125 | 1844 | 2459 | 3074 | 2705 | 2090 | 2090 | 2336 | 2951 | 3197 | 3566 | 2459 | 4549 | 2951 | 2459 | 7500 |

Tight Rust or Millscale

Hard Coating

Low Profile Range

SSPC-SP 6

Tables 2131 CC

| Operating Conditions | | Consumption Rate lbs/hr of Blasting | | | | | | | | | | | | | | |
|----------------------|----------------|-------------------------------------|--------|------|-----------------------------|------|--------|------|--------------------------------|------------|--------|--------|--------------|---------|-------|------|
| | | Typical Mineral Abrasive | | | Refinery & By-Product Grits | | | | Natural or Mined Grits & Sands | | | | Manufactured | | | |
| Nozzle Size | Pressure (psi) | -25% | Median | +25% | Copper | Coal | Nickel | Iron | Olivine | Staurolite | Garnet | Silica | Zircon | Alumina | Glass | Iron |
| 6 | 90 | 789 | 1052 | 1315 | 1157 | 894 | 894 | 999 | 1262 | 1368 | 1525 | 1052 | 1946 | 1262 | 1052 | 3209 |
| 7 | 90 | 1086 | 1448 | 1810 | 1593 | 1231 | 1231 | 1376 | 1738 | 1882 | 2100 | 1448 | 2679 | 1738 | 1448 | 4416 |
| 8 | 90 | 1392 | 1856 | 2320 | 2042 | 1578 | 1578 | 1763 | 2227 | 2413 | 2691 | 1856 | 3434 | 2227 | 1856 | 5661 |
| 6 | 100 | 864 | 1152 | 1440 | 1267 | 979 | 979 | 1094 | 1382 | 1498 | 1670 | 1152 | 2131 | 1382 | 1152 | 3514 |
| 7 | 100 | 1188 | 1584 | 1980 | 1742 | 1346 | 1346 | 1505 | 1901 | 2059 | 2297 | 1584 | 2930 | 1901 | 1584 | 4831 |
| 8 | 100 | 1518 | 2024 | 2530 | 2226 | 1720 | 1720 | 1923 | 2429 | 2631 | 2935 | 2024 | 3744 | 2429 | 2024 | 6173 |
| 6 | 110 | 920 | 1226 | 1533 | 1349 | 1042 | 1042 | 1165 | 1471 | 1594 | 1778 | 1226 | 2268 | 1471 | 1226 | 3739 |
| 7 | 110 | 1274 | 1699 | 2124 | 1869 | 1444 | 1444 | 1614 | 2039 | 2209 | 2464 | 1699 | 3143 | 2039 | 1699 | 5182 |
| 8 | 110 | 1623 | 2164 | 2705 | 2380 | 1839 | 1839 | 2056 | 2597 | 2813 | 3138 | 2164 | 4003 | 2597 | 2164 | 6600 |
| 6 | 125 | 1045 | 1393 | 1741 | 1532 | 1184 | 1184 | 1323 | 1672 | 1811 | 2020 | 1393 | 2577 | 1672 | 1393 | 4249 |
| 7 | 125 | 1448 | 1931 | 2414 | 2124 | 1641 | 1641 | 1834 | 2317 | 2510 | 2800 | 1931 | 3572 | 2317 | 1931 | 5890 |
| 8 | 125 | 1844 | 2459 | 3074 | 2705 | 2090 | 2090 | 2336 | 2951 | 3197 | 3566 | 2459 | 4549 | 2951 | 2459 | 7500 |

Tight Rust or Millscale

Hard Coating

Medium Profile Range

SSPC-SP 6

Tables 2132

CC

| Operating Conditions | | Consumption Rate lbs/hr of Blasting | | | | | | | | | | | | | | |
|----------------------|----------------|-------------------------------------|--------|------|-----------------------------|------|--------|------|--------------------------------|------------|--------|--------|--------------|---------|-------|------|
| | | Typical Mineral Abrasive | | | Refinery & By-Product Grits | | | | Natural or Mined Grits & Sands | | | | Manufactured | | | |
| Nozzle Size | Pressure (psi) | -25% | Median | +25% | Copper | Coal | Nickel | Iron | Olivine | Staurolite | Garnet | Silica | Zircon | Alumina | Glass | Iron |
| 6 | 90 | 789 | 1052 | 1315 | 1157 | 894 | 894 | 999 | 1262 | 1368 | 1525 | 1052 | 1946 | 1262 | 1052 | 3209 |
| 7 | 90 | 1086 | 1448 | 1810 | 1593 | 1231 | 1231 | 1376 | 1738 | 1882 | 2100 | 1448 | 2679 | 1738 | 1448 | 4416 |
| 8 | 90 | 1392 | 1856 | 2320 | 2042 | 1578 | 1578 | 1763 | 2227 | 2413 | 2691 | 1856 | 3434 | 2227 | 1856 | 5661 |
| 6 | 100 | 864 | 1152 | 1440 | 1267 | 979 | 979 | 1094 | 1382 | 1498 | 1670 | 1152 | 2131 | 1382 | 1152 | 3514 |
| 7 | 100 | 1188 | 1584 | 1980 | 1742 | 1346 | 1346 | 1505 | 1901 | 2059 | 2297 | 1584 | 2930 | 1901 | 1584 | 4831 |
| 8 | 100 | 1518 | 2024 | 2530 | 2226 | 1720 | 1720 | 1923 | 2429 | 2631 | 2935 | 2024 | 3744 | 2429 | 2024 | 6173 |
| 6 | 110 | 920 | 1226 | 1533 | 1349 | 1042 | 1042 | 1165 | 1471 | 1594 | 1778 | 1226 | 2268 | 1471 | 1226 | 3739 |
| 7 | 110 | 1274 | 1699 | 2124 | 1869 | 1444 | 1444 | 1614 | 2039 | 2209 | 2464 | 1699 | 3143 | 2039 | 1699 | 5182 |
| 8 | 110 | 1623 | 2164 | 2705 | 2380 | 1839 | 1839 | 2056 | 2597 | 2813 | 3138 | 2164 | 4003 | 2597 | 2164 | 6600 |
| 6 | 125 | 1045 | 1393 | 1741 | 1532 | 1184 | 1184 | 1323 | 1672 | 1811 | 2020 | 1393 | 2577 | 1672 | 1393 | 4249 |
| 7 | 125 | 1448 | 1931 | 2414 | 2124 | 1641 | 1641 | 1834 | 2317 | 2510 | 2800 | 1931 | 3572 | 2317 | 1931 | 5890 |
| 8 | 125 | 1844 | 2459 | 3074 | 2705 | 2090 | 2090 | 2336 | 2951 | 3197 | 3566 | 2459 | 4549 | 2951 | 2459 | 7500 |

Tight Rust or Millscale

Hard Coating

High Profile Range

SSPC-SP 6

Tables 2133 CC

| Operating Conditions | | Consumption Rate lbs/hr of Blasting | | | | | | | | | | | | | | |
|----------------------|----------------|-------------------------------------|--------|------|-----------------------------|------|--------|------|--------------------------------|------------|--------|--------|--------------|---------|-------|------|
| | | Typical Mineral Abrasive | | | Refinery & By-Product Grits | | | | Natural or Mined Grits & Sands | | | | Manufactured | | | |
| Nozzle Size | Pressure (psi) | -25% | Median | +25% | Copper | Coal | Nickel | Iron | Olivine | Staurolite | Garnet | Silica | Zircon | Alumina | Glass | Iron |
| 6 | 90 | 789 | 1052 | 1315 | 1157 | 894 | 894 | 999 | 1262 | 1368 | 1525 | 1052 | 1946 | 1262 | 1052 | 3209 |
| 7 | 90 | 1086 | 1448 | 1810 | 1593 | 1231 | 1231 | 1376 | 1738 | 1882 | 2100 | 1448 | 2679 | 1738 | 1448 | 4416 |
| 8 | 90 | 1392 | 1856 | 2320 | 2042 | 1578 | 1578 | 1763 | 2227 | 2413 | 2691 | 1856 | 3434 | 2227 | 1856 | 5661 |
| 6 | 100 | 864 | 1152 | 1440 | 1267 | 979 | 979 | 1094 | 1382 | 1498 | 1670 | 1152 | 2131 | 1382 | 1152 | 3514 |
| 7 | 100 | 1188 | 1584 | 1980 | 1742 | 1346 | 1346 | 1505 | 1901 | 2059 | 2297 | 1584 | 2930 | 1901 | 1584 | 4831 |
| 8 | 100 | 1518 | 2024 | 2530 | 2226 | 1720 | 1720 | 1923 | 2429 | 2631 | 2935 | 2024 | 3744 | 2429 | 2024 | 6173 |
| 6 | 110 | 920 | 1226 | 1533 | 1349 | 1042 | 1042 | 1165 | 1471 | 1594 | 1778 | 1226 | 2268 | 1471 | 1226 | 3739 |
| 7 | 110 | 1274 | 1699 | 2124 | 1869 | 1444 | 1444 | 1614 | 2039 | 2209 | 2464 | 1699 | 3143 | 2039 | 1699 | 5182 |
| 8 | 110 | 1623 | 2164 | 2705 | 2380 | 1839 | 1839 | 2056 | 2597 | 2813 | 3138 | 2164 | 4003 | 2597 | 2164 | 6600 |
| 6 | 125 | 1045 | 1393 | 1741 | 1532 | 1184 | 1184 | 1323 | 1672 | 1811 | 2020 | 1393 | 2577 | 1672 | 1393 | 4249 |
| 7 | 125 | 1448 | 1931 | 2414 | 2124 | 1641 | 1641 | 1834 | 2317 | 2510 | 2800 | 1931 | 3572 | 2317 | 1931 | 5890 |
| 8 | 125 | 1844 | 2459 | 3074 | 2705 | 2090 | 2090 | 2336 | 2951 | 3197 | 3566 | 2459 | 4549 | 2951 | 2459 | 7500 |

Tight Rust or Millscale

Hard Coating

Low Profile Range

SSPC-SP 7

Tables 2141 CC

| Operating Conditions | | Consumption Rate lbs/hr of Blasting | | | | | | | | | | | | | | |
|----------------------|----------------|-------------------------------------|--------|------|-----------------------------|------|--------|------|--------------------------------|------------|--------|--------|--------------|---------|-------|------|
| | | Typical Mineral Abrasive | | | Refinery & By-Product Grits | | | | Natural or Mined Grits & Sands | | | | Manufactured | | | |
| Nozzle Size | Pressure (psi) | -25% | Median | +25% | Copper | Coal | Nickel | Iron | Olivine | Staurolite | Garnet | Silica | Zircon | Alumina | Glass | Iron |
| 6 | 90 | 789 | 1052 | 1315 | 1157 | 894 | 894 | 999 | 1262 | 1368 | 1525 | 1052 | 1946 | 1262 | 1052 | 3209 |
| 7 | 90 | 1086 | 1448 | 1810 | 1593 | 1231 | 1231 | 1376 | 1738 | 1882 | 2100 | 1448 | 2679 | 1738 | 1448 | 4416 |
| 8 | 90 | 1392 | 1856 | 2320 | 2042 | 1578 | 1578 | 1763 | 2227 | 2413 | 2691 | 1856 | 3434 | 2227 | 1856 | 5661 |
| 6 | 100 | 864 | 1152 | 1440 | 1267 | 979 | 979 | 1094 | 1382 | 1498 | 1670 | 1152 | 2131 | 1382 | 1152 | 3514 |
| 7 | 100 | 1188 | 1584 | 1980 | 1742 | 1346 | 1346 | 1505 | 1901 | 2059 | 2297 | 1584 | 2930 | 1901 | 1584 | 4831 |
| 8 | 100 | 1518 | 2024 | 2530 | 2226 | 1720 | 1720 | 1923 | 2429 | 2631 | 2935 | 2024 | 3744 | 2429 | 2024 | 6173 |
| 6 | 110 | 920 | 1226 | 1533 | 1349 | 1042 | 1042 | 1165 | 1471 | 1594 | 1778 | 1226 | 2268 | 1471 | 1226 | 3739 |
| 7 | 110 | 1274 | 1699 | 2124 | 1869 | 1444 | 1444 | 1614 | 2039 | 2209 | 2464 | 1699 | 3143 | 2039 | 1699 | 5182 |
| 8 | 110 | 1623 | 2164 | 2705 | 2380 | 1839 | 1839 | 2056 | 2597 | 2813 | 3138 | 2164 | 4003 | 2597 | 2164 | 6600 |
| 6 | 125 | 1045 | 1393 | 1741 | 1532 | 1184 | 1184 | 1323 | 1672 | 1811 | 2020 | 1393 | 2577 | 1672 | 1393 | 4249 |
| 7 | 125 | 1448 | 1931 | 2414 | 2124 | 1641 | 1641 | 1834 | 2317 | 2510 | 2800 | 1931 | 3572 | 2317 | 1931 | 5890 |
| 8 | 125 | 1844 | 2459 | 3074 | 2705 | 2090 | 2090 | 2336 | 2951 | 3197 | 3566 | 2459 | 4549 | 2951 | 2459 | 7500 |

Tight Rust or Millscale

Soft Coating

Low Profile Range

SSPC-SP 5

Tables 2211 CC

| Operating Conditions | | Consumption Rate lbs/hr of Blasting | | | | | | | | | | | | | | |
|----------------------|----------------|-------------------------------------|--------|------|-----------------------------|------|--------|------|--------------------------------|------------|--------|--------|--------------|---------|-------|------|
| | | Typical Mineral Abrasive | | | Refinery & By-Product Grits | | | | Natural or Mined Grits & Sands | | | | Manufactured | | | |
| Nozzle Size | Pressure (psi) | -25% | Median | +25% | Copper | Coal | Nickel | Iron | Olivine | Staurolite | Garnet | Silica | Zircon | Alumina | Glass | Iron |
| 6 | 90 | 789 | 1052 | 1315 | 1157 | 894 | 894 | 999 | 1262 | 1368 | 1525 | 1052 | 1946 | 1262 | 1052 | 3209 |
| 7 | 90 | 1086 | 1448 | 1810 | 1593 | 1231 | 1231 | 1376 | 1738 | 1882 | 2100 | 1448 | 2679 | 1738 | 1448 | 4416 |
| 8 | 90 | 1392 | 1856 | 2320 | 2042 | 1578 | 1578 | 1763 | 2227 | 2413 | 2691 | 1856 | 3434 | 2227 | 1856 | 5661 |
| 6 | 100 | 864 | 1152 | 1440 | 1267 | 979 | 979 | 1094 | 1382 | 1498 | 1670 | 1152 | 2131 | 1382 | 1152 | 3514 |
| 7 | 100 | 1188 | 1584 | 1980 | 1742 | 1346 | 1346 | 1505 | 1901 | 2059 | 2297 | 1584 | 2930 | 1901 | 1584 | 4831 |
| 8 | 100 | 1518 | 2024 | 2530 | 2226 | 1720 | 1720 | 1923 | 2429 | 2631 | 2935 | 2024 | 3744 | 2429 | 2024 | 6173 |
| 6 | 110 | 920 | 1226 | 1533 | 1349 | 1042 | 1042 | 1165 | 1471 | 1594 | 1778 | 1226 | 2268 | 1471 | 1226 | 3739 |
| 7 | 110 | 1274 | 1699 | 2124 | 1869 | 1444 | 1444 | 1614 | 2039 | 2209 | 2464 | 1699 | 3143 | 2039 | 1699 | 5182 |
| 8 | 110 | 1623 | 2164 | 2705 | 2380 | 1839 | 1839 | 2056 | 2597 | 2813 | 3138 | 2164 | 4003 | 2597 | 2164 | 6600 |
| 6 | 125 | 1045 | 1393 | 1741 | 1532 | 1184 | 1184 | 1323 | 1672 | 1811 | 2020 | 1393 | 2577 | 1672 | 1393 | 4249 |
| 7 | 125 | 1448 | 1931 | 2414 | 2124 | 1641 | 1641 | 1834 | 2317 | 2510 | 2800 | 1931 | 3572 | 2317 | 1931 | 5890 |
| 8 | 125 | 1844 | 2459 | 3074 | 2705 | 2090 | 2090 | 2336 | 2951 | 3197 | 3566 | 2459 | 4549 | 2951 | 2459 | 7500 |

Tight Rust or Millscale

Soft Coating

Medium Profile Range

SSPC-SP 5

Tables 2212 C C

| Operating Conditions | | Consumption Rate lbs/hr of Blasting | | | | | | | | | | | | | | |
|----------------------|----------------|-------------------------------------|--------|------|-----------------------------|------|--------|------|--------------------------------|------------|--------|--------|--------------|---------|-------|------|
| | | Typical Mineral Abrasive | | | Refinery & By-Product Grits | | | | Natural or Mined Grits & Sands | | | | Manufactured | | | |
| Nozzle Size | Pressure (psi) | -25% | Median | +25% | Copper | Coal | Nickel | Iron | Olivine | Staurolite | Garnet | Silica | Zircon | Alumina | Glass | Iron |
| 6 | 90 | 789 | 1052 | 1315 | 1157 | 894 | 894 | 999 | 1262 | 1368 | 1525 | 1052 | 1946 | 1262 | 1052 | 3209 |
| 7 | 90 | 1086 | 1448 | 1810 | 1593 | 1231 | 1231 | 1376 | 1738 | 1882 | 2100 | 1448 | 2679 | 1738 | 1448 | 4416 |
| 8 | 90 | 1392 | 1856 | 2320 | 2042 | 1578 | 1578 | 1763 | 2227 | 2413 | 2691 | 1856 | 3434 | 2227 | 1856 | 5661 |
| 6 | 100 | 864 | 1152 | 1440 | 1267 | 979 | 979 | 1094 | 1382 | 1498 | 1670 | 1152 | 2131 | 1382 | 1152 | 3514 |
| 7 | 100 | 1188 | 1584 | 1980 | 1742 | 1346 | 1346 | 1505 | 1901 | 2059 | 2297 | 1584 | 2930 | 1901 | 1584 | 4831 |
| 8 | 100 | 1518 | 2024 | 2530 | 2226 | 1720 | 1720 | 1923 | 2429 | 2631 | 2935 | 2024 | 3744 | 2429 | 2024 | 6173 |
| 6 | 110 | 920 | 1226 | 1533 | 1349 | 1042 | 1042 | 1165 | 1471 | 1594 | 1778 | 1226 | 2268 | 1471 | 1226 | 3739 |
| 7 | 110 | 1274 | 1699 | 2124 | 1869 | 1444 | 1444 | 1614 | 2039 | 2209 | 2464 | 1699 | 3143 | 2039 | 1699 | 5182 |
| 8 | 110 | 1623 | 2164 | 2705 | 2380 | 1839 | 1839 | 2056 | 2597 | 2813 | 3138 | 2164 | 4003 | 2597 | 2164 | 6600 |
| 6 | 125 | 1045 | 1393 | 1741 | 1532 | 1184 | 1184 | 1323 | 1672 | 1811 | 2020 | 1393 | 2577 | 1672 | 1393 | 4249 |
| 7 | 125 | 1448 | 1931 | 2414 | 2124 | 1641 | 1641 | 1834 | 2317 | 2510 | 2800 | 1931 | 3572 | 2317 | 1931 | 5890 |
| 8 | 125 | 1844 | 2459 | 3074 | 2705 | 2090 | 2090 | 2336 | 2951 | 3197 | 3566 | 2459 | 4549 | 2951 | 2459 | 7500 |

Tight Rust or Millscale

Soft Coating

High Profile Range

SSPC-SP 5

Tables 2213 CC

| Operating Conditions | | Consumption Rate lbs/hr of Blasting | | | | | | | | | | | | | | |
|----------------------|----------------|-------------------------------------|--------|------|-----------------------------|------|--------|------|--------------------------------|------------|--------|--------|--------------|---------|-------|------|
| | | Typical Mineral Abrasive | | | Refinery & By-Product Grits | | | | Natural or Mined Grits & Sands | | | | Manufactured | | | |
| Nozzle Size | Pressure (psi) | -25% | Median | +25% | Copper | Coal | Nickel | Iron | Olivine | Staurolite | Garnet | Silica | Zircon | Alumina | Glass | Iron |
| 6 | 90 | 789 | 1052 | 1315 | 1157 | 894 | 894 | 999 | 1262 | 1368 | 1525 | 1052 | 1946 | 1262 | 1052 | 3209 |
| 7 | 90 | 1086 | 1448 | 1810 | 1593 | 1231 | 1231 | 1376 | 1738 | 1882 | 2100 | 1448 | 2679 | 1738 | 1448 | 4416 |
| 8 | 90 | 1392 | 1856 | 2320 | 2042 | 1578 | 1578 | 1763 | 2227 | 2413 | 2691 | 1856 | 3434 | 2227 | 1856 | 5661 |
| 6 | 100 | 864 | 1152 | 1440 | 1267 | 979 | 979 | 1094 | 1382 | 1498 | 1670 | 1152 | 2131 | 1382 | 1152 | 3514 |
| 7 | 100 | 1188 | 1584 | 1980 | 1742 | 1346 | 1346 | 1505 | 1901 | 2059 | 2297 | 1584 | 2930 | 1901 | 1584 | 4831 |
| 8 | 100 | 1518 | 2024 | 2530 | 2226 | 1720 | 1720 | 1923 | 2429 | 2631 | 2935 | 2024 | 3744 | 2429 | 2024 | 6173 |
| 6 | 110 | 920 | 1226 | 1533 | 1349 | 1042 | 1042 | 1165 | 1471 | 1594 | 1778 | 1226 | 2268 | 1471 | 1226 | 3739 |
| 7 | 110 | 1274 | 1699 | 2124 | 1869 | 1444 | 1444 | 1614 | 2039 | 2209 | 2464 | 1699 | 3143 | 2039 | 1699 | 5182 |
| 8 | 110 | 1623 | 2164 | 2705 | 2380 | 1839 | 1839 | 2056 | 2597 | 2813 | 3138 | 2164 | 4003 | 2597 | 2164 | 6600 |
| 6 | 125 | 1045 | 1393 | 1741 | 1532 | 1184 | 1184 | 1323 | 1672 | 1811 | 2020 | 1393 | 2577 | 1672 | 1393 | 4249 |
| 7 | 125 | 1448 | 1931 | 2414 | 2124 | 1641 | 1641 | 1834 | 2317 | 2510 | 2800 | 1931 | 3572 | 2317 | 1931 | 5890 |
| 8 | 125 | 1844 | 2459 | 3074 | 2705 | 2090 | 2090 | 2336 | 2951 | 3197 | 3566 | 2459 | 4549 | 2951 | 2459 | 7500 |

Tight Rust or Millscale

Soft Coating

Low Profile Range

SSPC-SP 10

Tables 2221

CC

| Operating Conditions | | Consumption Rate lbs/hr of Blasting | | | | | | | | | | | | | | |
|----------------------|----------------|-------------------------------------|--------|------|-----------------------------|------|--------|------|--------------------------------|------------|--------|--------|--------------|---------|-------|------|
| | | Typical Mineral Abrasive | | | Refinery & By-Product Grits | | | | Natural or Mined Grits & Sands | | | | Manufactured | | | |
| Nozzle Size | Pressure (psi) | -25% | Median | +25% | Copper | Coal | Nickel | Iron | Olivine | Staurolite | Garnet | Silica | Zircon | Alumina | Glass | Iron |
| 6 | 90 | 789 | 1052 | 1315 | 1157 | 894 | 894 | 999 | 1262 | 1368 | 1525 | 1052 | 1946 | 1262 | 1052 | 3209 |
| 7 | 90 | 1086 | 1448 | 1810 | 1593 | 1231 | 1231 | 1376 | 1738 | 1882 | 2100 | 1448 | 2679 | 1738 | 1448 | 4416 |
| 8 | 90 | 1392 | 1856 | 2320 | 2042 | 1578 | 1578 | 1763 | 2227 | 2413 | 2691 | 1856 | 3434 | 2227 | 1856 | 5661 |
| 6 | 100 | 864 | 1152 | 1440 | 1267 | 979 | 979 | 1094 | 1382 | 1498 | 1670 | 1152 | 2131 | 1382 | 1152 | 3514 |
| 7 | 100 | 1188 | 1584 | 1980 | 1742 | 1346 | 1346 | 1505 | 1901 | 2059 | 2297 | 1584 | 2930 | 1901 | 1584 | 4831 |
| 8 | 100 | 1518 | 2024 | 2530 | 2226 | 1720 | 1720 | 1923 | 2429 | 2631 | 2935 | 2024 | 3744 | 2429 | 2024 | 6173 |
| 6 | 110 | 920 | 1226 | 1533 | 1349 | 1042 | 1042 | 1165 | 1471 | 1594 | 1778 | 1226 | 2268 | 1471 | 1226 | 3739 |
| 7 | 110 | 1274 | 1699 | 2124 | 1869 | 1444 | 1444 | 1614 | 2039 | 2209 | 2464 | 1699 | 3143 | 2039 | 1699 | 5182 |
| 8 | 110 | 1623 | 2164 | 2705 | 2380 | 1839 | 1839 | 2056 | 2597 | 2813 | 3138 | 2164 | 4003 | 2597 | 2164 | 6600 |
| 6 | 125 | 1045 | 1393 | 1741 | 1532 | 1184 | 1184 | 1323 | 1672 | 1811 | 2020 | 1393 | 2577 | 1672 | 1393 | 4249 |
| 7 | 125 | 1448 | 1931 | 2414 | 2124 | 1641 | 1641 | 1834 | 2317 | 2510 | 2800 | 1931 | 3572 | 2317 | 1931 | 5890 |
| 8 | 125 | 1844 | 2459 | 3074 | 2705 | 2090 | 2090 | 2336 | 2951 | 3197 | 3566 | 2459 | 4549 | 2951 | 2459 | 7500 |

Tight Rust or Millscale

Soft Coating Medium Profile Range SSPC-SP 10 Tables 2222 C C

| Operating Conditions | | Consumption Rate lbs/hr of Blasting | | | | | | | | | | | | | | |
|----------------------|----------------|-------------------------------------|--------|------|-----------------------------|------|--------|------|--------------------------------|------------|--------|--------|--------------|---------|-------|------|
| | | Typical Mineral Abrasive | | | Refinery & By-Product Grits | | | | Natural or Mined Grits & Sands | | | | Manufactured | | | |
| Nozzle Size | Pressure (psi) | -25% | Median | +25% | Copper | Coal | Nickel | Iron | Olivine | Staurolite | Garnet | Silica | Zircon | Alumina | Glass | Iron |
| 6 | 90 | 789 | 1052 | 1315 | 1157 | 894 | 894 | 999 | 1262 | 1368 | 1525 | 1052 | 1946 | 1262 | 1052 | 3209 |
| 7 | 90 | 1086 | 1448 | 1810 | 1593 | 1231 | 1231 | 1376 | 1738 | 1882 | 2100 | 1448 | 2679 | 1738 | 1448 | 4416 |
| 8 | 90 | 1392 | 1856 | 2320 | 2042 | 1578 | 1578 | 1763 | 2227 | 2413 | 2691 | 1856 | 3434 | 2227 | 1856 | 5661 |
| 6 | 100 | 864 | 1152 | 1440 | 1267 | 979 | 979 | 1094 | 1382 | 1498 | 1670 | 1152 | 2131 | 1382 | 1152 | 3514 |
| 7 | 100 | 1188 | 1584 | 1980 | 1742 | 1346 | 1346 | 1505 | 1901 | 2059 | 2297 | 1584 | 2930 | 1901 | 1584 | 4831 |
| 8 | 100 | 1518 | 2024 | 2530 | 2226 | 1720 | 1720 | 1923 | 2429 | 2631 | 2935 | 2024 | 3744 | 2429 | 2024 | 6173 |
| 6 | 110 | 920 | 1226 | 1533 | 1349 | 1042 | 1042 | 1165 | 1471 | 1594 | 1778 | 1226 | 2268 | 1471 | 1226 | 3739 |
| 7 | 110 | 1274 | 1699 | 2124 | 1869 | 1444 | 1444 | 1614 | 2039 | 2209 | 2464 | 1699 | 3143 | 2039 | 1699 | 5182 |
| 8 | 110 | 1623 | 2164 | 2705 | 2380 | 1839 | 1839 | 2056 | 2597 | 2813 | 3138 | 2164 | 4003 | 2597 | 2164 | 6600 |
| 6 | 125 | 1045 | 1393 | 1741 | 1532 | 1184 | 1184 | 1323 | 1672 | 1811 | 2020 | 1393 | 2577 | 1672 | 1393 | 4249 |
| 7 | 125 | 1448 | 1931 | 2414 | 2124 | 1641 | 1641 | 1834 | 2317 | 2510 | 2800 | 1931 | 3572 | 2317 | 1931 | 5890 |
| 8 | 125 | 1844 | 2459 | 3074 | 2705 | 2090 | 2090 | 2336 | 2951 | 3197 | 3566 | 2459 | 4549 | 2951 | 2459 | 7500 |

Tight Rust or Millscale

Soft Coating

High Profile Range

SSPC-SP 10

Tables 2223 CC

| Operating Conditions | | Consumption Rate lbs/hr of Blasting | | | | | | | | | | | | | | |
|----------------------|----------------|-------------------------------------|--------|------|-----------------------------|------|--------|------|--------------------------------|------------|--------|--------|--------------|---------|-------|------|
| | | Typical Mineral Abrasive | | | Refinery & By-Product Grits | | | | Natural or Mined Grits & Sands | | | | Manufactured | | | |
| Nozzle Size | Pressure (psi) | -25% | Median | +25% | Copper | Coal | Nickel | Iron | Olivine | Staurolite | Garnet | Silica | Zircon | Alumina | Glass | Iron |
| 6 | 90 | 789 | 1052 | 1315 | 1157 | 894 | 894 | 999 | 1262 | 1368 | 1525 | 1052 | 1946 | 1262 | 1052 | 3209 |
| 7 | 90 | 1086 | 1448 | 1810 | 1593 | 1231 | 1231 | 1376 | 1738 | 1882 | 2100 | 1448 | 2679 | 1738 | 1448 | 4416 |
| 8 | 90 | 1392 | 1856 | 2320 | 2042 | 1578 | 1578 | 1763 | 2227 | 2413 | 2691 | 1856 | 3434 | 2227 | 1856 | 5661 |
| 6 | 100 | 864 | 1152 | 1440 | 1267 | 979 | 979 | 1094 | 1382 | 1498 | 1670 | 1152 | 2131 | 1382 | 1152 | 3514 |
| 7 | 100 | 1188 | 1584 | 1980 | 1742 | 1346 | 1346 | 1505 | 1901 | 2059 | 2297 | 1584 | 2930 | 1901 | 1584 | 4831 |
| 8 | 100 | 1518 | 2024 | 2530 | 2226 | 1720 | 1720 | 1923 | 2429 | 2631 | 2935 | 2024 | 3744 | 2429 | 2024 | 6173 |
| 6 | 110 | 920 | 1226 | 1533 | 1349 | 1042 | 1042 | 1165 | 1471 | 1594 | 1778 | 1226 | 2268 | 1471 | 1226 | 3739 |
| 7 | 110 | 1274 | 1699 | 2124 | 1869 | 1444 | 1444 | 1614 | 2039 | 2209 | 2464 | 1699 | 3143 | 2039 | 1699 | 5182 |
| 8 | 110 | 1623 | 2164 | 2705 | 2380 | 1839 | 1839 | 2056 | 2597 | 2813 | 3138 | 2164 | 4003 | 2597 | 2164 | 6600 |
| 6 | 125 | 1045 | 1393 | 1741 | 1532 | 1184 | 1184 | 1323 | 1672 | 1811 | 2020 | 1393 | 2577 | 1672 | 1393 | 4249 |
| 7 | 125 | 1448 | 1931 | 2414 | 2124 | 1641 | 1641 | 1834 | 2317 | 2510 | 2800 | 1931 | 3572 | 2317 | 1931 | 5890 |
| 8 | 125 | 1844 | 2459 | 3074 | 2705 | 2090 | 2090 | 2336 | 2951 | 3197 | 3566 | 2459 | 4549 | 2951 | 2459 | 7500 |

Tight Rust or Millscale

Soft Coating

Low Profile Range

SSPC-SP 6

Tables 2231 CC

| Operating Conditions | | Consumption Rate lbs/hr of Blasting | | | | | | | | | | | | | | |
|----------------------|----------------|-------------------------------------|--------|------|-----------------------------|------|--------|------|--------------------------------|------------|--------|--------|--------------|---------|-------|------|
| | | Typical Mineral Abrasive | | | Refinery & By-Product Grits | | | | Natural or Mined Grits & Sands | | | | Manufactured | | | |
| Nozzle Size | Pressure (psi) | -25% | Median | +25% | Copper | Coal | Nickel | Iron | Olivine | Staurolite | Garnet | Silica | Zircon | Alumina | Glass | Iron |
| 6 | 90 | 789 | 1052 | 1315 | 1157 | 894 | 894 | 999 | 1262 | 1368 | 1525 | 1052 | 1946 | 1262 | 1052 | 3209 |
| 7 | 90 | 1086 | 1448 | 1810 | 1593 | 1231 | 1231 | 1376 | 1738 | 1882 | 2100 | 1448 | 2679 | 1738 | 1448 | 4416 |
| 8 | 90 | 1392 | 1856 | 2320 | 2042 | 1578 | 1578 | 1763 | 2227 | 2413 | 2691 | 1856 | 3434 | 2227 | 1856 | 5661 |
| 6 | 100 | 864 | 1152 | 1440 | 1267 | 979 | 979 | 1094 | 1382 | 1498 | 1670 | 1152 | 2131 | 1382 | 1152 | 3514 |
| 7 | 100 | 1188 | 1584 | 1980 | 1742 | 1346 | 1346 | 1505 | 1901 | 2059 | 2297 | 1584 | 2930 | 1901 | 1584 | 4831 |
| 8 | 100 | 1518 | 2024 | 2530 | 2226 | 1720 | 1720 | 1923 | 2429 | 2631 | 2935 | 2024 | 3744 | 2429 | 2024 | 6173 |
| 6 | 110 | 920 | 1226 | 1533 | 1349 | 1042 | 1042 | 1165 | 1471 | 1594 | 1778 | 1226 | 2268 | 1471 | 1226 | 3739 |
| 7 | 110 | 1274 | 1699 | 2124 | 1869 | 1444 | 1444 | 1614 | 2039 | 2209 | 2464 | 1699 | 3143 | 2039 | 1699 | 5182 |
| 8 | 110 | 1623 | 2164 | 2705 | 2380 | 1839 | 1839 | 2056 | 2597 | 2813 | 3138 | 2164 | 4003 | 2597 | 2164 | 6600 |
| 6 | 125 | 1045 | 1393 | 1741 | 1532 | 1184 | 1184 | 1323 | 1672 | 1811 | 2020 | 1393 | 2577 | 1672 | 1393 | 4249 |
| 7 | 125 | 1448 | 1931 | 2414 | 2124 | 1641 | 1641 | 1834 | 2317 | 2510 | 2800 | 1931 | 3572 | 2317 | 1931 | 5890 |
| 8 | 125 | 1844 | 2459 | 3074 | 2705 | 2090 | 2090 | 2336 | 2951 | 3197 | 3566 | 2459 | 4549 | 2951 | 2459 | 7500 |

Tight Rust or Millscale

Soft Coating Medium Profile Range SSPC-SP 6 Tables 2232 C C

| Operating Conditions | | Consumption Rate lbs/hr of Blasting | | | | | | | | | | | | | | |
|----------------------|----------------|-------------------------------------|--------|------|-----------------------------|------|--------|------|--------------------------------|------------|--------|--------|--------------|---------|-------|------|
| | | Typical Mineral Abrasive | | | Refinery & By-Product Grits | | | | Natural or Mined Grits & Sands | | | | Manufactured | | | |
| Nozzle Size | Pressure (psi) | -25% | Median | +25% | Copper | Coal | Nickel | Iron | Olivine | Staurolite | Garnet | Silica | Zircon | Alumina | Glass | Iron |
| 6 | 90 | 789 | 1052 | 1315 | 1157 | 894 | 894 | 999 | 1262 | 1368 | 1525 | 1052 | 1946 | 1262 | 1052 | 3209 |
| 7 | 90 | 1086 | 1448 | 1810 | 1593 | 1231 | 1231 | 1376 | 1738 | 1882 | 2100 | 1448 | 2679 | 1738 | 1448 | 4416 |
| 8 | 90 | 1392 | 1856 | 2320 | 2042 | 1578 | 1578 | 1763 | 2227 | 2413 | 2691 | 1856 | 3434 | 2227 | 1856 | 5661 |
| 6 | 100 | 864 | 1152 | 1440 | 1267 | 979 | 979 | 1094 | 1382 | 1498 | 1670 | 1152 | 2131 | 1382 | 1152 | 3514 |
| 7 | 100 | 1188 | 1584 | 1980 | 1742 | 1346 | 1346 | 1505 | 1901 | 2059 | 2297 | 1584 | 2930 | 1901 | 1584 | 4831 |
| 8 | 100 | 1518 | 2024 | 2530 | 2226 | 1720 | 1720 | 1923 | 2429 | 2631 | 2935 | 2024 | 3744 | 2429 | 2024 | 6173 |
| 6 | 110 | 920 | 1226 | 1533 | 1349 | 1042 | 1042 | 1165 | 1471 | 1594 | 1778 | 1226 | 2268 | 1471 | 1226 | 3739 |
| 7 | 110 | 1274 | 1699 | 2124 | 1869 | 1444 | 1444 | 1614 | 2039 | 2209 | 2464 | 1699 | 3143 | 2039 | 1699 | 5182 |
| 8 | 110 | 1623 | 2164 | 2705 | 2380 | 1839 | 1839 | 2056 | 2597 | 2813 | 3138 | 2164 | 4003 | 2597 | 2164 | 6600 |
| 6 | 125 | 1045 | 1393 | 1741 | 1532 | 1184 | 1184 | 1323 | 1672 | 1811 | 2020 | 1393 | 2577 | 1672 | 1393 | 4249 |
| 7 | 125 | 1448 | 1931 | 2414 | 2124 | 1641 | 1641 | 1834 | 2317 | 2510 | 2800 | 1931 | 3572 | 2317 | 1931 | 5890 |
| 8 | 125 | 1844 | 2459 | 3074 | 2705 | 2090 | 2090 | 2336 | 2951 | 3197 | 3566 | 2459 | 4549 | 2951 | 2459 | 7500 |

Tight Rust or Millscale

Soft Coating

High Profile Range

SSPC-SP 6

Tables 2233 CC

| Operating Conditions | | Consumption Rate lbs/hr of Blasting | | | | | | | | | | | | | | |
|----------------------|----------------|-------------------------------------|--------|------|-----------------------------|------|--------|------|--------------------------------|------------|--------|--------|--------------|---------|-------|------|
| | | Typical Mineral Abrasive | | | Refinery & By-Product Grits | | | | Natural or Mined Grits & Sands | | | | Manufactured | | | |
| Nozzle Size | Pressure (psi) | -25% | Median | +25% | Copper | Coal | Nickel | Iron | Olivine | Staurolite | Garnet | Silica | Zircon | Alumina | Glass | Iron |
| 6 | 90 | 789 | 1052 | 1315 | 1157 | 894 | 894 | 999 | 1262 | 1368 | 1525 | 1052 | 1946 | 1262 | 1052 | 3209 |
| 7 | 90 | 1086 | 1448 | 1810 | 1593 | 1231 | 1231 | 1376 | 1738 | 1882 | 2100 | 1448 | 2679 | 1738 | 1448 | 4416 |
| 8 | 90 | 1392 | 1856 | 2320 | 2042 | 1578 | 1578 | 1763 | 2227 | 2413 | 2691 | 1856 | 3434 | 2227 | 1856 | 5661 |
| 6 | 100 | 864 | 1152 | 1440 | 1267 | 979 | 979 | 1094 | 1382 | 1498 | 1670 | 1152 | 2131 | 1382 | 1152 | 3514 |
| 7 | 100 | 1188 | 1584 | 1980 | 1742 | 1346 | 1346 | 1505 | 1901 | 2059 | 2297 | 1584 | 2930 | 1901 | 1584 | 4831 |
| 8 | 100 | 1518 | 2024 | 2530 | 2226 | 1720 | 1720 | 1923 | 2429 | 2631 | 2935 | 2024 | 3744 | 2429 | 2024 | 6173 |
| 6 | 110 | 920 | 1226 | 1533 | 1349 | 1042 | 1042 | 1165 | 1471 | 1594 | 1778 | 1226 | 2268 | 1471 | 1226 | 3739 |
| 7 | 110 | 1274 | 1699 | 2124 | 1869 | 1444 | 1444 | 1614 | 2039 | 2209 | 2464 | 1699 | 3143 | 2039 | 1699 | 5182 |
| 8 | 110 | 1623 | 2164 | 2705 | 2380 | 1839 | 1839 | 2056 | 2597 | 2813 | 3138 | 2164 | 4003 | 2597 | 2164 | 6600 |
| 6 | 125 | 1045 | 1393 | 1741 | 1532 | 1184 | 1184 | 1323 | 1672 | 1811 | 2020 | 1393 | 2577 | 1672 | 1393 | 4249 |
| 7 | 125 | 1448 | 1931 | 2414 | 2124 | 1641 | 1641 | 1834 | 2317 | 2510 | 2800 | 1931 | 3572 | 2317 | 1931 | 5890 |
| 8 | 125 | 1844 | 2459 | 3074 | 2705 | 2090 | 2090 | 2336 | 2951 | 3197 | 3566 | 2459 | 4549 | 2951 | 2459 | 7500 |

Tight Rust or Millscale

Soft Coating

Low Profile Range

SSPC-SP 7

Tables 2241 CC

| Operating Conditions | | Consumption Rate lbs/hr of Blasting | | | | | | | | | | | | | | |
|----------------------|----------------|-------------------------------------|--------|------|-----------------------------|------|--------|------|--------------------------------|------------|--------|--------|--------------|---------|-------|------|
| | | Typical Mineral Abrasive | | | Refinery & By-Product Grits | | | | Natural or Mined Grits & Sands | | | | Manufactured | | | |
| Nozzle Size | Pressure (psi) | -25% | Median | +25% | Copper | Coal | Nickel | Iron | Olivine | Staurolite | Garnet | Silica | Zircon | Alumina | Glass | |
| 6 | 90 | 789 | 1052 | 1315 | 1157 | 894 | 894 | 999 | 1262 | 1368 | 1525 | 1052 | 1946 | 1262 | 1052 | 3209 |
| 7 | 90 | 1086 | 1448 | 1810 | 1593 | 1231 | 1231 | 1376 | 1738 | 1882 | 2100 | 1448 | 2679 | 1738 | 1448 | 4416 |
| 8 | 90 | 1392 | 1856 | 2320 | 2042 | 1578 | 1578 | 1763 | 2227 | 2413 | 2691 | 1856 | 3434 | 2227 | 1856 | 5661 |
| 6 | 100 | 864 | 1152 | 1440 | 1267 | 979 | 979 | 1094 | 1382 | 1498 | 1670 | 1152 | 2131 | 1382 | 1152 | 3514 |
| 7 | 100 | 1188 | 1584 | 1980 | 1742 | 1346 | 1346 | 1505 | 1901 | 2059 | 2297 | 1584 | 2930 | 1901 | 1584 | 4831 |
| 8 | 100 | 1518 | 2024 | 2530 | 2226 | 1720 | 1720 | 1923 | 2429 | 2631 | 2935 | 2024 | 3744 | 2429 | 2024 | 6173 |
| 6 | 110 | 920 | 1226 | 1533 | 1349 | 1042 | 1042 | 1165 | 1471 | 1594 | 1778 | 1226 | 2268 | 1471 | 1226 | 3739 |
| 7 | 110 | 1274 | 1699 | 2124 | 1869 | 1444 | 1444 | 1614 | 2039 | 2209 | 2464 | 1699 | 3143 | 2039 | 1699 | 5182 |
| 8 | 110 | 1623 | 2164 | 2705 | 2380 | 1839 | 1839 | 2056 | 2597 | 2813 | 3138 | 2164 | 4003 | 2597 | 2164 | 6600 |
| 6 | 125 | 1045 | 1393 | 1741 | 1532 | 1184 | 1184 | 1323 | 1672 | 1811 | 2020 | 1393 | 2577 | 1672 | 1393 | 4249 |
| 7 | 125 | 1448 | 1931 | 2414 | 2124 | 1641 | 1641 | 1834 | 2317 | 2510 | 2800 | 1931 | 3572 | 2317 | 1931 | 5890 |
| 8 | 125 | 1844 | 2459 | 3074 | 2705 | 2090 | 2090 | 2336 | 2951 | 3197 | 3566 | 2459 | 4549 | 2951 | 2459 | 7500 |

Tight Rust or Millscale

New Steel

Low Profile Range

SSPC-SP 5

Tables 2311 C C

| Operating Conditions | | Consumption Rate lbs/hr of Blasting | | | | | | | | | | | | | | |
|----------------------|----------------|-------------------------------------|--------|------|-----------------------------|------|--------|------|--------------------------------|------------|--------|--------|--------------|---------|-------|------|
| | | Typical Mineral Abrasive | | | Refinery & By-Product Grits | | | | Natural or Mined Grits & Sands | | | | Manufactured | | | |
| Nozzle Size | Pressure (psi) | -25% | Median | +25% | Copper | Coal | Nickel | Iron | Olivine | Staurolite | Garnet | Silica | Zircon | Alumina | Glass | |
| 6 | 90 | 789 | 1052 | 1315 | 1157 | 894 | 894 | 999 | 1262 | 1368 | 1525 | 1052 | 1946 | 1262 | 1052 | 3209 |
| 7 | 90 | 1086 | 1448 | 1810 | 1593 | 1231 | 1231 | 1376 | 1738 | 1882 | 2100 | 1448 | 2679 | 1738 | 1448 | 4416 |
| 8 | 90 | 1392 | 1856 | 2320 | 2042 | 1578 | 1578 | 1763 | 2227 | 2413 | 2691 | 1856 | 3434 | 2227 | 1856 | 5661 |
| 6 | 100 | 864 | 1152 | 1440 | 1267 | 979 | 979 | 1094 | 1382 | 1498 | 1670 | 1152 | 2131 | 1382 | 1152 | 3514 |
| 7 | 100 | 1188 | 1584 | 1980 | 1742 | 1346 | 1346 | 1505 | 1901 | 2059 | 2297 | 1584 | 2930 | 1901 | 1584 | 4831 |
| 8 | 100 | 1518 | 2024 | 2530 | 2226 | 1720 | 1720 | 1923 | 2429 | 2631 | 2935 | 2024 | 3744 | 2429 | 2024 | 6173 |
| 6 | 110 | 920 | 1226 | 1533 | 1349 | 1042 | 1042 | 1165 | 1471 | 1594 | 1778 | 1226 | 2268 | 1471 | 1226 | 3739 |
| 7 | 110 | 1274 | 1699 | 2124 | 1869 | 1444 | 1444 | 1614 | 2039 | 2209 | 2464 | 1699 | 3143 | 2039 | 1699 | 5182 |
| 8 | 110 | 1623 | 2164 | 2705 | 2380 | 1839 | 1839 | 2056 | 2597 | 2813 | 3138 | 2164 | 4003 | 2597 | 2164 | 6600 |
| 6 | 125 | 1045 | 1393 | 1741 | 1532 | 1184 | 1184 | 1323 | 1672 | 1811 | 2020 | 1393 | 2577 | 1672 | 1393 | 4249 |
| 7 | 125 | 1448 | 1931 | 2414 | 2124 | 1641 | 1641 | 1834 | 2317 | 2510 | 2800 | 1931 | 3572 | 2317 | 1931 | 5890 |
| 8 | 125 | 1844 | 2459 | 3074 | 2705 | 2090 | 2090 | 2336 | 2951 | 3197 | 3566 | 2459 | 4549 | 2951 | 2459 | 7500 |

Tight Rust or Millscale

New Steel

Low Profile Range

SSPC-SP 5

Tables 2311 C C

| Operating Conditions | | Consumption Rate lbs/hr of Blasting | | | | | | | | | | | | | | |
|----------------------|----------------|-------------------------------------|--------|------|-----------------------------|------|--------|------|--------------------------------|------------|--------|--------|--------------|---------|-------|------|
| | | Typical Mineral Abrasive | | | Refinery & By-Product Grits | | | | Natural or Mined Grits & Sands | | | | Manufactured | | | |
| Nozzle Size | Pressure (psi) | -25% | Median | +25% | Copper | Coal | Nickel | Iron | Olivine | Staurolite | Garnet | Silica | Zircon | Alumina | Glass | Iron |
| 6 | 90 | 789 | 1052 | 1315 | 1157 | 894 | 894 | 999 | 1262 | 1368 | 1525 | 1052 | 1946 | 1262 | 1052 | 3209 |
| 7 | 90 | 1086 | 1448 | 1810 | 1593 | 1231 | 1231 | 1376 | 1738 | 1882 | 2100 | 1448 | 2679 | 1738 | 1448 | 4416 |
| 8 | 90 | 1392 | 1856 | 2320 | 2042 | 1578 | 1578 | 1763 | 2227 | 2413 | 2691 | 1856 | 3434 | 2227 | 1856 | 5661 |
| 6 | 100 | 864 | 1152 | 1440 | 1267 | 979 | 979 | 1094 | 1382 | 1498 | 1670 | 1152 | 2131 | 1382 | 1152 | 3514 |
| 7 | 100 | 1188 | 1584 | 1980 | 1742 | 1346 | 1346 | 1505 | 1901 | 2059 | 2297 | 1584 | 2930 | 1901 | 1584 | 4831 |
| 8 | 100 | 1518 | 2024 | 2530 | 2226 | 1720 | 1720 | 1923 | 2429 | 2631 | 2935 | 2024 | 3744 | 2429 | 2024 | 6173 |
| 6 | 110 | 920 | 1226 | 1533 | 1349 | 1042 | 1042 | 1165 | 1471 | 1594 | 1778 | 1226 | 2268 | 1471 | 1226 | 3739 |
| 7 | 110 | 1274 | 1699 | 2124 | 1869 | 1444 | 1444 | 1614 | 2039 | 2209 | 2464 | 1699 | 3143 | 2039 | 1699 | 5182 |
| 8 | 110 | 1623 | 2164 | 2705 | 2380 | 1839 | 1839 | 2056 | 2597 | 2813 | 3138 | 2164 | 4003 | 2597 | 2164 | 6600 |
| 6 | 125 | 1045 | 1393 | 1741 | 1532 | 1184 | 1184 | 1323 | 1672 | 1811 | 2020 | 1393 | 2577 | 1672 | 1393 | 4249 |
| 7 | 125 | 1448 | 1931 | 2414 | 2124 | 1641 | 1641 | 1834 | 2317 | 2510 | 2800 | 1931 | 3572 | 2317 | 1931 | 5890 |
| 8 | 125 | 1844 | 2459 | 3074 | 2705 | 2090 | 2090 | 2336 | 2951 | 3197 | 3566 | 2459 | 4549 | 2951 | 2459 | 7500 |

Tight Rust or Millscale

New Steel

Medium Profile Range

SSPC-SP 5

Tables 2312 C C

| Operating Conditions | | Consumption Rate lbs/hr of Blasting | | | | | | | | | | | | | | |
|----------------------|----------------|-------------------------------------|--------|------|-----------------------------|------|--------|------|--------------------------------|------------|--------|--------|--------------|---------|-------|------|
| | | Typical Mineral Abrasive | | | Refinery & By-Product Grits | | | | Natural or Mined Grits & Sands | | | | Manufactured | | | |
| Nozzle Size | Pressure (psi) | -25% | Median | +25% | Copper | Coal | Nickel | Iron | Olivine | Staurolite | Garnet | Silica | Zircon | Alumina | Glass | Iron |
| 6 | 90 | 789 | 1052 | 1315 | 1157 | 894 | 894 | 999 | 1262 | 1368 | 1525 | 1052 | 1946 | 1262 | 1052 | 3209 |
| 7 | 90 | 1086 | 1448 | 1810 | 1593 | 1231 | 1231 | 1376 | 1738 | 1882 | 2100 | 1448 | 2679 | 1738 | 1448 | 4416 |
| 8 | 90 | 1392 | 1856 | 2320 | 2042 | 1578 | 1578 | 1763 | 2227 | 2413 | 2691 | 1856 | 3434 | 2227 | 1856 | 5661 |
| 6 | 100 | 864 | 1152 | 1440 | 1267 | 979 | 979 | 1094 | 1382 | 1498 | 1670 | 1152 | 2131 | 1382 | 1152 | 3514 |
| 7 | 100 | 1188 | 1584 | 1980 | 1742 | 1346 | 1346 | 1505 | 1901 | 2059 | 2297 | 1584 | 2930 | 1901 | 1584 | 4831 |
| 8 | 100 | 1518 | 2024 | 2530 | 2226 | 1720 | 1720 | 1923 | 2429 | 2631 | 2935 | 2024 | 3744 | 2429 | 2024 | 6173 |
| 6 | 110 | 920 | 1226 | 1533 | 1349 | 1042 | 1042 | 1165 | 1471 | 1594 | 1778 | 1226 | 2268 | 1471 | 1226 | 3739 |
| 7 | 110 | 1274 | 1699 | 2124 | 1869 | 1444 | 1444 | 1614 | 2039 | 2209 | 2464 | 1699 | 3143 | 2039 | 1699 | 5182 |
| 8 | 110 | 1623 | 2164 | 2705 | 2380 | 1839 | 1839 | 2056 | 2597 | 2813 | 3138 | 2164 | 4003 | 2597 | 2164 | 6600 |
| 6 | 125 | 1045 | 1393 | 1741 | 1532 | 1184 | 1184 | 1323 | 1672 | 1811 | 2020 | 1393 | 2577 | 1672 | 1393 | 4249 |
| 7 | 125 | 1448 | 1931 | 2414 | 2124 | 1641 | 1641 | 1834 | 2317 | 2510 | 2800 | 1931 | 3572 | 2317 | 1931 | 5890 |
| 8 | 125 | 1844 | 2459 | 3074 | 2705 | 2090 | 2090 | 2336 | 2951 | 3197 | 3566 | 2459 | 4549 | 2951 | 2459 | 7500 |

Tight Rust or Millscale

New Steel

Medium Profile Range

SSPC-SP 5

Tables 2312 C C

| Operating Conditions | | Consumption Rate lbs/hr of Blasting | | | | | | | | | | | | | | |
|----------------------|----------------|-------------------------------------|--------|------|-----------------------------|------|--------|------|--------------------------------|------------|--------|--------|--------------|---------|-------|------|
| | | Typical Mineral Abrasive | | | Refinery & By-Product Grits | | | | Natural or Mined Grits & Sands | | | | Manufactured | | | |
| Nozzle Size | Pressure (psi) | -25% | Median | +25% | Copper | Coal | Nickel | Iron | Olivine | Staurolite | Garnet | Silica | Zircon | Alumina | Glass | Iron |
| 6 | 90 | 789 | 1052 | 1315 | 1157 | 894 | 894 | 999 | 1262 | 1368 | 1525 | 1052 | 1946 | 1262 | 1052 | 3209 |
| 7 | 90 | 1086 | 1448 | 1810 | 1593 | 1231 | 1231 | 1376 | 1738 | 1882 | 2100 | 1448 | 2679 | 1738 | 1448 | 4416 |
| 8 | 90 | 1392 | 1856 | 2320 | 2042 | 1578 | 1578 | 1763 | 2227 | 2413 | 2691 | 1856 | 3434 | 2227 | 1856 | 5661 |
| 6 | 100 | 864 | 1152 | 1440 | 1267 | 979 | 979 | 1094 | 1382 | 1498 | 1670 | 1152 | 2131 | 1382 | 1152 | 3514 |
| 7 | 100 | 1188 | 1584 | 1980 | 1742 | 1346 | 1346 | 1505 | 1901 | 2059 | 2297 | 1584 | 2930 | 1901 | 1584 | 4831 |
| 8 | 100 | 1518 | 2024 | 2530 | 2226 | 1720 | 1720 | 1923 | 2429 | 2631 | 2935 | 2024 | 3744 | 2429 | 2024 | 6173 |
| 6 | 110 | 920 | 1226 | 1533 | 1349 | 1042 | 1042 | 1165 | 1471 | 1594 | 1778 | 1226 | 2268 | 1471 | 1226 | 3739 |
| 7 | 110 | 1274 | 1699 | 2124 | 1869 | 1444 | 1444 | 1614 | 2039 | 2209 | 2464 | 1699 | 3143 | 2039 | 1699 | 5182 |
| 8 | 110 | 1623 | 2164 | 2705 | 2380 | 1839 | 1839 | 2056 | 2597 | 2813 | 3138 | 2164 | 4003 | 2597 | 2164 | 6600 |
| 6 | 125 | 1045 | 1393 | 1741 | 1532 | 1184 | 1184 | 1323 | 1672 | 1811 | 2020 | 1393 | 2577 | 1672 | 1393 | 4249 |
| 7 | 125 | 1448 | 1931 | 2414 | 2124 | 1641 | 1641 | 1834 | 2317 | 2510 | 2800 | 1931 | 3572 | 2317 | 1931 | 5890 |
| 8 | 125 | 1844 | 2459 | 3074 | 2705 | 2090 | 2090 | 2336 | 2951 | 3197 | 3566 | 2459 | 4549 | 2951 | 2459 | 7500 |

Tight Rust or Millscale

New Steel

High Profile Range

SSPC-SP 5

Tables 2313 CC

| Operating Conditions | | Consumption Rate lbs/hr of Blasting | | | | | | | | | | | | | | |
|----------------------|----------------|-------------------------------------|--------|------|-----------------------------|------|--------|------|--------------------------------|------------|--------|--------|--------------|---------|-------|------|
| | | Typical Mineral Abrasive | | | Refinery & By-Product Grits | | | | Natural or Mined Grits & Sands | | | | Manufactured | | | |
| Nozzle Size | Pressure (psi) | -25% | Median | +25% | Copper | Coal | Nickel | Iron | Olivine | Staurolite | Garnet | Silica | Zircon | Alumina | Glass | Iron |
| 6 | 90 | 789 | 1052 | 1315 | 1157 | 894 | 894 | 999 | 1262 | 1368 | 1525 | 1052 | 1946 | 1262 | 1052 | 3209 |
| 7 | 90 | 1086 | 1448 | 1810 | 1593 | 1231 | 1231 | 1376 | 1738 | 1882 | 2100 | 1448 | 2679 | 1738 | 1448 | 4416 |
| 8 | 90 | 1392 | 1856 | 2320 | 2042 | 1578 | 1578 | 1763 | 2227 | 2413 | 2691 | 1856 | 3434 | 2227 | 1856 | 5661 |
| 6 | 100 | 864 | 1152 | 1440 | 1267 | 979 | 979 | 1094 | 1382 | 1498 | 1670 | 1152 | 2131 | 1382 | 1152 | 3514 |
| 7 | 100 | 1188 | 1584 | 1980 | 1742 | 1346 | 1346 | 1505 | 1901 | 2059 | 2297 | 1584 | 2930 | 1901 | 1584 | 4831 |
| 8 | 100 | 1518 | 2024 | 2530 | 2226 | 1720 | 1720 | 1923 | 2429 | 2631 | 2935 | 2024 | 3744 | 2429 | 2024 | 6173 |
| 6 | 110 | 920 | 1226 | 1533 | 1349 | 1042 | 1042 | 1165 | 1471 | 1594 | 1778 | 1226 | 2268 | 1471 | 1226 | 3739 |
| 7 | 110 | 1274 | 1699 | 2124 | 1869 | 1444 | 1444 | 1614 | 2039 | 2209 | 2464 | 1699 | 3143 | 2039 | 1699 | 5182 |
| 8 | 110 | 1623 | 2164 | 2705 | 2380 | 1839 | 1839 | 2056 | 2597 | 2813 | 3138 | 2164 | 4003 | 2597 | 2164 | 6600 |
| 6 | 125 | 1045 | 1393 | 1741 | 1532 | 1184 | 1184 | 1323 | 1672 | 1811 | 2020 | 1393 | 2577 | 1672 | 1393 | 4249 |
| 7 | 125 | 1448 | 1931 | 2414 | 2124 | 1641 | 1641 | 1834 | 2317 | 2510 | 2800 | 1931 | 3572 | 2317 | 1931 | 5890 |
| 8 | 125 | 1844 | 2459 | 3074 | 2705 | 2090 | 2090 | 2336 | 2951 | 3197 | 3566 | 2459 | 4549 | 2951 | 2459 | 7500 |

Tight Rust or Millscale

New Steel

High Profile Range

SSPC-SP 5

Tables 2313 C C

| Operating Conditions | | Consumption Rate lbs/hr of Blasting | | | | | | | | | | | | | | |
|----------------------|----------------|-------------------------------------|--------|------|-----------------------------|------|--------|------|--------------------------------|------------|--------|--------|--------------|---------|-------|------|
| | | Typical Mineral Abrasive | | | Refinery & By-Product Grits | | | | Natural or Mined Grits & Sands | | | | Manufactured | | | |
| Nozzle Size | Pressure (psi) | -25% | Median | +25% | Copper | Coal | Nickel | Iron | Olivine | Staurolite | Garnet | Silica | Zircon | Alumina | Glass | Iron |
| 6 | 90 | 789 | 1052 | 1315 | 1157 | 894 | 894 | 999 | 1262 | 1368 | 1525 | 1052 | 1946 | 1262 | 1052 | 3209 |
| 7 | 90 | 1086 | 1448 | 1810 | 1593 | 1231 | 1231 | 1376 | 1738 | 1882 | 2100 | 1448 | 2679 | 1738 | 1448 | 4416 |
| 8 | 90 | 1392 | 1856 | 2320 | 2042 | 1578 | 1578 | 1763 | 2227 | 2413 | 2691 | 1856 | 3434 | 2227 | 1856 | 5661 |
| 6 | 100 | 864 | 1152 | 1440 | 1267 | 979 | 979 | 1094 | 1382 | 1498 | 1670 | 1152 | 2131 | 1382 | 1152 | 3514 |
| 7 | 100 | 1188 | 1584 | 1980 | 1742 | 1346 | 1346 | 1505 | 1901 | 2059 | 2297 | 1584 | 2930 | 1901 | 1584 | 4831 |
| 8 | 100 | 1518 | 2024 | 2530 | 2226 | 1720 | 1720 | 1923 | 2429 | 2631 | 2935 | 2024 | 3744 | 2429 | 2024 | 6173 |
| 6 | 110 | 920 | 1226 | 1533 | 1349 | 1042 | 1042 | 1165 | 1471 | 1594 | 1778 | 1226 | 2268 | 1471 | 1226 | 3739 |
| 7 | 110 | 1274 | 1699 | 2124 | 1869 | 1444 | 1444 | 1614 | 2039 | 2209 | 2464 | 1699 | 3143 | 2039 | 1699 | 5182 |
| 8 | 110 | 1623 | 2164 | 2705 | 2380 | 1839 | 1839 | 2056 | 2597 | 2813 | 3138 | 2164 | 4003 | 2597 | 2164 | 6600 |
| 6 | 125 | 1045 | 1393 | 1741 | 1532 | 1184 | 1184 | 1323 | 1672 | 1811 | 2020 | 1393 | 2577 | 1672 | 1393 | 4249 |
| 7 | 125 | 1448 | 1931 | 2414 | 2124 | 1641 | 1641 | 1834 | 2317 | 2510 | 2800 | 1931 | 3572 | 2317 | 1931 | 5890 |
| 8 | 125 | 1844 | 2459 | 3074 | 2705 | 2090 | 2090 | 2336 | 2951 | 3197 | 3566 | 2459 | 4549 | 2951 | 2459 | 7500 |

Tight Rust or Millscale

New Steel

Low Profile Range

SSPC-SP 10

Tables 2321 C C

| Operating Conditions | | Consumption Rate lbs/hr of Blasting | | | | | | | | | | | | | | |
|----------------------|----------------|-------------------------------------|--------|------|-----------------------------|------|--------|------|--------------------------------|------------|--------|--------|--------------|---------|-------|------|
| | | Typical Mineral Abrasive | | | Refinery & By-Product Grits | | | | Natural or Mined Grits & Sands | | | | Manufactured | | | |
| Nozzle Size | Pressure (psi) | -25% | Median | +25% | Copper | Coal | Nickel | Iron | Olivine | Staurolite | Garnet | Silica | Zircon | Alumina | Glass | Iron |
| 6 | 90 | 789 | 1052 | 1315 | 1157 | 894 | 894 | 999 | 1262 | 1368 | 1525 | 1052 | 1946 | 1262 | 1052 | 3209 |
| 7 | 90 | 1086 | 1448 | 1810 | 1593 | 1231 | 1231 | 1376 | 1738 | 1882 | 2100 | 1448 | 2679 | 1738 | 1448 | 4416 |
| 8 | 90 | 1392 | 1856 | 2320 | 2042 | 1578 | 1578 | 1763 | 2227 | 2413 | 2691 | 1856 | 3434 | 2227 | 1856 | 5661 |
| 6 | 100 | 864 | 1152 | 1440 | 1267 | 979 | 979 | 1094 | 1382 | 1498 | 1670 | 1152 | 2131 | 1382 | 1152 | 3514 |
| 7 | 100 | 1188 | 1584 | 1980 | 1742 | 1346 | 1346 | 1505 | 1901 | 2059 | 2297 | 1584 | 2930 | 1901 | 1584 | 4831 |
| 8 | 100 | 1518 | 2024 | 2530 | 2226 | 1720 | 1720 | 1923 | 2429 | 2631 | 2935 | 2024 | 3744 | 2429 | 2024 | 6173 |
| 6 | 110 | 920 | 1226 | 1533 | 1349 | 1042 | 1042 | 1165 | 1471 | 1594 | 1778 | 1226 | 2268 | 1471 | 1226 | 3739 |
| 7 | 110 | 1274 | 1699 | 2124 | 1869 | 1444 | 1444 | 1614 | 2039 | 2209 | 2464 | 1699 | 3143 | 2039 | 1699 | 5182 |
| 8 | 110 | 1623 | 2164 | 2705 | 2380 | 1839 | 1839 | 2056 | 2597 | 2813 | 3138 | 2164 | 4003 | 2597 | 2164 | 6600 |
| 6 | 125 | 1045 | 1393 | 1741 | 1532 | 1184 | 1184 | 1323 | 1672 | 1811 | 2020 | 1393 | 2577 | 1672 | 1393 | 4249 |
| 7 | 125 | 1448 | 1931 | 2414 | 2124 | 1641 | 1641 | 1834 | 2317 | 2510 | 2800 | 1931 | 3572 | 2317 | 1931 | 5890 |
| 8 | 125 | 1844 | 2459 | 3074 | 2705 | 2090 | 2090 | 2336 | 2951 | 3197 | 3566 | 2459 | 4549 | 2951 | 2459 | 7500 |

Tight Rust or Millscale

New Steel

Low Profile Range

SSPC-SP 10

Tables 2321 C C

| Operating Conditions | | Consumption Rate lbs/hr of Blasting | | | | | | | | | | | | | | |
|----------------------|----------------|-------------------------------------|--------|------|-----------------------------|------|--------|------|--------------------------------|------------|--------|--------|--------------|---------|-------|------|
| | | Typical Mineral Abrasive | | | Refinery & By-Product Grits | | | | Natural or Mined Grits & Sands | | | | Manufactured | | | |
| Nozzle Size | Pressure (psi) | -25% | Median | +25% | Copper | Coal | Nickel | Iron | Olivine | Staurolite | Garnet | Silica | Zircon | Alumina | Glass | Iron |
| 6 | 90 | 789 | 1052 | 1315 | 1157 | 894 | 894 | 999 | 1262 | 1368 | 1525 | 1052 | 1946 | 1262 | 1052 | 3209 |
| 7 | 90 | 1086 | 1448 | 1810 | 1593 | 1231 | 1231 | 1376 | 1738 | 1882 | 2100 | 1448 | 2679 | 1738 | 1448 | 4416 |
| 8 | 90 | 1392 | 1856 | 2320 | 2042 | 1578 | 1578 | 1763 | 2227 | 2413 | 2691 | 1856 | 3434 | 2227 | 1856 | 5661 |
| 6 | 100 | 864 | 1152 | 1440 | 1267 | 979 | 979 | 1094 | 1382 | 1498 | 1670 | 1152 | 2131 | 1382 | 1152 | 3514 |
| 7 | 100 | 1188 | 1584 | 1980 | 1742 | 1346 | 1346 | 1505 | 1901 | 2059 | 2297 | 1584 | 2930 | 1901 | 1584 | 4831 |
| 8 | 100 | 1518 | 2024 | 2530 | 2226 | 1720 | 1720 | 1923 | 2429 | 2631 | 2935 | 2024 | 3744 | 2429 | 2024 | 6173 |
| 6 | 110 | 920 | 1226 | 1533 | 1349 | 1042 | 1042 | 1165 | 1471 | 1594 | 1778 | 1226 | 2268 | 1471 | 1226 | 3739 |
| 7 | 110 | 1274 | 1699 | 2124 | 1869 | 1444 | 1444 | 1614 | 2039 | 2209 | 2464 | 1699 | 3143 | 2039 | 1699 | 5182 |
| 8 | 110 | 1623 | 2164 | 2705 | 2380 | 1839 | 1839 | 2056 | 2597 | 2813 | 3138 | 2164 | 4003 | 2597 | 2164 | 6600 |
| 6 | 125 | 1045 | 1393 | 1741 | 1532 | 1184 | 1184 | 1323 | 1672 | 1811 | 2020 | 1393 | 2577 | 1672 | 1393 | 4249 |
| 7 | 125 | 1448 | 1931 | 2414 | 2124 | 1641 | 1641 | 1834 | 2317 | 2510 | 2800 | 1931 | 3572 | 2317 | 1931 | 5890 |
| 8 | 125 | 1844 | 2459 | 3074 | 2705 | 2090 | 2090 | 2336 | 2951 | 3197 | 3566 | 2459 | 4549 | 2951 | 2459 | 7500 |

Tight Rust or Millscale

New Steel

Medium Profile Range

SSPC-SP 10

Tables 2322

CC

| Operating Conditions | | Consumption Rate lbs/hr of Blasting | | | | | | | | | | | | | | |
|----------------------|----------------|-------------------------------------|--------|------|-----------------------------|------|--------|------|--------------------------------|------------|--------|--------|--------------|---------|-------|------|
| | | Typical Mineral Abrasive | | | Refinery & By-Product Grits | | | | Natural or Mined Grits & Sands | | | | Manufactured | | | |
| Nozzle Size | Pressure (psi) | -25% | Median | +25% | Copper | Coal | Nickel | Iron | Olivine | Staurolite | Garnet | Silica | Zircon | Alumina | Glass | Iron |
| 6 | 90 | 789 | 1052 | 1315 | 1157 | 894 | 894 | 999 | 1262 | 1368 | 1525 | 1052 | 1946 | 1262 | 1052 | 3209 |
| 7 | 90 | 1086 | 1448 | 1810 | 1593 | 1231 | 1231 | 1376 | 1738 | 1882 | 2100 | 1448 | 2679 | 1738 | 1448 | 4416 |
| 8 | 90 | 1392 | 1856 | 2320 | 2042 | 1578 | 1578 | 1763 | 2227 | 2413 | 2691 | 1856 | 3434 | 2227 | 1856 | 5661 |
| 6 | 100 | 864 | 1152 | 1440 | 1267 | 979 | 979 | 1094 | 1382 | 1498 | 1670 | 1152 | 2131 | 1382 | 1152 | 3514 |
| 7 | 100 | 1188 | 1584 | 1980 | 1742 | 1346 | 1346 | 1505 | 1901 | 2059 | 2297 | 1584 | 2930 | 1901 | 1584 | 4831 |
| 8 | 100 | 1518 | 2024 | 2530 | 2226 | 1720 | 1720 | 1923 | 2429 | 2631 | 2935 | 2024 | 3744 | 2429 | 2024 | 6173 |
| 6 | 110 | 920 | 1226 | 1533 | 1349 | 1042 | 1042 | 1165 | 1471 | 1594 | 1778 | 1226 | 2268 | 1471 | 1226 | 3739 |
| 7 | 110 | 1274 | 1699 | 2124 | 1869 | 1444 | 1444 | 1614 | 2039 | 2209 | 2464 | 1699 | 3143 | 2039 | 1699 | 5182 |
| 8 | 110 | 1623 | 2164 | 2705 | 2380 | 1839 | 1839 | 2056 | 2597 | 2813 | 3138 | 2164 | 4003 | 2597 | 2164 | 6600 |
| 6 | 125 | 1045 | 1393 | 1741 | 1532 | 1184 | 1184 | 1323 | 1672 | 1811 | 2020 | 1393 | 2577 | 1672 | 1393 | 4249 |
| 7 | 125 | 1448 | 1931 | 2414 | 2124 | 1641 | 1641 | 1834 | 2317 | 2510 | 2800 | 1931 | 3572 | 2317 | 1931 | 5890 |
| 8 | 125 | 1844 | 2459 | 3074 | 2705 | 2090 | 2090 | 2336 | 2951 | 3197 | 3566 | 2459 | 4549 | 2951 | 2459 | 7500 |

Tight Rust or Millscale

New Steel

Medium Profile Range

SSPC-SP 10

Tables 2322

CC

| Operating Conditions | | Consumption Rate lbs/hr of Blasting | | | | | | | | | | | | | | |
|----------------------|----------------|-------------------------------------|--------|------|-----------------------------|------|--------|------|--------------------------------|------------|--------|--------|--------------|---------|-------|------|
| | | Typical Mineral Abrasive | | | Refinery & By-Product Grits | | | | Natural or Mined Grits & Sands | | | | Manufactured | | | |
| Nozzle Size | Pressure (psi) | -25% | Median | +25% | Copper | Coal | Nickel | Iron | Olivine | Staurolite | Garnet | Silica | Zircon | Alumina | Glass | Iron |
| 6 | 90 | 789 | 1052 | 1315 | 1157 | 894 | 894 | 999 | 1262 | 1368 | 1525 | 1052 | 1946 | 1262 | 1052 | 3209 |
| 7 | 90 | 1086 | 1448 | 1810 | 1593 | 1231 | 1231 | 1376 | 1738 | 1882 | 2100 | 1448 | 2679 | 1738 | 1448 | 4416 |
| 8 | 90 | 1392 | 1856 | 2320 | 2042 | 1578 | 1578 | 1763 | 2227 | 2413 | 2691 | 1856 | 3434 | 2227 | 1856 | 5661 |
| 6 | 100 | 864 | 1152 | 1440 | 1267 | 979 | 979 | 1094 | 1382 | 1498 | 1670 | 1152 | 2131 | 1382 | 1152 | 3514 |
| 7 | 100 | 1188 | 1584 | 1980 | 1742 | 1346 | 1346 | 1505 | 1901 | 2059 | 2297 | 1584 | 2930 | 1901 | 1584 | 4831 |
| 8 | 100 | 1518 | 2024 | 2530 | 2226 | 1720 | 1720 | 1923 | 2429 | 2631 | 2935 | 2024 | 3744 | 2429 | 2024 | 6173 |
| 6 | 110 | 920 | 1226 | 1533 | 1349 | 1042 | 1042 | 1165 | 1471 | 1594 | 1778 | 1226 | 2268 | 1471 | 1226 | 3739 |
| 7 | 110 | 1274 | 1699 | 2124 | 1869 | 1444 | 1444 | 1614 | 2039 | 2209 | 2464 | 1699 | 3143 | 2039 | 1699 | 5182 |
| 8 | 110 | 1623 | 2164 | 2705 | 2380 | 1839 | 1839 | 2056 | 2597 | 2813 | 3138 | 2164 | 4003 | 2597 | 2164 | 6600 |
| 6 | 125 | 1045 | 1393 | 1741 | 1532 | 1184 | 1184 | 1323 | 1672 | 1811 | 2020 | 1393 | 2577 | 1672 | 1393 | 4249 |
| 7 | 125 | 1448 | 1931 | 2414 | 2124 | 1641 | 1641 | 1834 | 2317 | 2510 | 2800 | 1931 | 3572 | 2317 | 1931 | 5890 |
| 8 | 125 | 1844 | 2459 | 3074 | 2705 | 2090 | 2090 | 2336 | 2951 | 3197 | 3566 | 2459 | 4549 | 2951 | 2459 | 7500 |

Tight Rust or Millscale

New Steel

High Profile Range

SSPC-SP 10

Tables 2323 C C

| Operating Conditions | | Consumption Rate lbs/hr of Blasting | | | | | | | | | | | | | | |
|----------------------|----------------|-------------------------------------|--------|------|-----------------------------|------|--------|------|--------------------------------|------------|--------|--------|--------------|---------|-------|------|
| | | Typical Mineral Abrasive | | | Refinery & By-Product Grits | | | | Natural or Mined Grits & Sands | | | | Manufactured | | | |
| Nozzle Size | Pressure (psi) | -25% | Median | +25% | Copper | Coal | Nickel | Iron | Olivine | Staurolite | Garnet | Silica | Zircon | Alumina | Glass | Iron |
| 6 | 90 | 789 | 1052 | 1315 | 1157 | 894 | 894 | 999 | 1262 | 1368 | 1525 | 1052 | 1946 | 1262 | 1052 | 3209 |
| 7 | 90 | 1086 | 1448 | 1810 | 1593 | 1231 | 1231 | 1376 | 1738 | 1882 | 2100 | 1448 | 2679 | 1738 | 1448 | 4416 |
| 8 | 90 | 1392 | 1856 | 2320 | 2042 | 1578 | 1578 | 1763 | 2227 | 2413 | 2691 | 1856 | 3434 | 2227 | 1856 | 5661 |
| 6 | 100 | 864 | 1152 | 1440 | 1267 | 979 | 979 | 1094 | 1382 | 1498 | 1670 | 1152 | 2131 | 1382 | 1152 | 3514 |
| 7 | 100 | 1188 | 1584 | 1980 | 1742 | 1346 | 1346 | 1505 | 1901 | 2059 | 2297 | 1584 | 2930 | 1901 | 1584 | 4831 |
| 8 | 100 | 1518 | 2024 | 2530 | 2226 | 1720 | 1720 | 1923 | 2429 | 2631 | 2935 | 2024 | 3744 | 2429 | 2024 | 6173 |
| 6 | 110 | 920 | 1226 | 1533 | 1349 | 1042 | 1042 | 1165 | 1471 | 1594 | 1778 | 1226 | 2268 | 1471 | 1226 | 3739 |
| 7 | 110 | 1274 | 1699 | 2124 | 1869 | 1444 | 1444 | 1614 | 2039 | 2209 | 2464 | 1699 | 3143 | 2039 | 1699 | 5182 |
| 8 | 110 | 1623 | 2164 | 2705 | 2380 | 1839 | 1839 | 2056 | 2597 | 2813 | 3138 | 2164 | 4003 | 2597 | 2164 | 6600 |
| 6 | 125 | 1045 | 1393 | 1741 | 1532 | 1184 | 1184 | 1323 | 1672 | 1811 | 2020 | 1393 | 2577 | 1672 | 1393 | 4249 |
| 7 | 125 | 1448 | 1931 | 2414 | 2124 | 1641 | 1641 | 1834 | 2317 | 2510 | 2800 | 1931 | 3572 | 2317 | 1931 | 5890 |
| 8 | 125 | 1844 | 2459 | 3074 | 2705 | 2090 | 2090 | 2336 | 2951 | 3197 | 3566 | 2459 | 4549 | 2951 | 2459 | 7500 |

Tight Rust or Millscale

New Steel

High Profile Range

SSPC-SP 10

Tables 2323 C C

| Operating Conditions | | Consumption Rate lbs/hr of Blasting | | | | | | | | | | | | | | |
|----------------------|----------------|-------------------------------------|--------|------|-----------------------------|------|--------|------|--------------------------------|------------|--------|--------|--------------|---------|-------|------|
| | | Typical Mineral Abrasive | | | Refinery & By-Product Grits | | | | Natural or Mined Grits & Sands | | | | Manufactured | | | |
| Nozzle Size | Pressure (psi) | -25% | Median | +25% | Copper | Coal | Nickel | Iron | Olivine | Staurolite | Garnet | Silica | Zircon | Alumina | Glass | Iron |
| 6 | 90 | 789 | 1052 | 1315 | 1157 | 894 | 894 | 999 | 1262 | 1368 | 1525 | 1052 | 1946 | 1262 | 1052 | 3209 |
| 7 | 90 | 1086 | 1448 | 1810 | 1593 | 1231 | 1231 | 1376 | 1738 | 1882 | 2100 | 1448 | 2679 | 1738 | 1448 | 4416 |
| 8 | 90 | 1392 | 1856 | 2320 | 2042 | 1578 | 1578 | 1763 | 2227 | 2413 | 2691 | 1856 | 3434 | 2227 | 1856 | 5661 |
| 6 | 100 | 864 | 1152 | 1440 | 1267 | 979 | 979 | 1094 | 1382 | 1498 | 1670 | 1152 | 2131 | 1382 | 1152 | 3514 |
| 7 | 100 | 1188 | 1584 | 1980 | 1742 | 1346 | 1346 | 1505 | 1901 | 2059 | 2297 | 1584 | 2930 | 1901 | 1584 | 4831 |
| 8 | 100 | 1518 | 2024 | 2530 | 2226 | 1720 | 1720 | 1923 | 2429 | 2631 | 2935 | 2024 | 3744 | 2429 | 2024 | 6173 |
| 6 | 110 | 920 | 1226 | 1533 | 1349 | 1042 | 1042 | 1165 | 1471 | 1594 | 1778 | 1226 | 2268 | 1471 | 1226 | 3739 |
| 7 | 110 | 1274 | 1699 | 2124 | 1869 | 1444 | 1444 | 1614 | 2039 | 2209 | 2464 | 1699 | 3143 | 2039 | 1699 | 5182 |
| 8 | 110 | 1623 | 2164 | 2705 | 2380 | 1839 | 1839 | 2056 | 2597 | 2813 | 3138 | 2164 | 4003 | 2597 | 2164 | 6600 |
| 6 | 125 | 1045 | 1393 | 1741 | 1532 | 1184 | 1184 | 1323 | 1672 | 1811 | 2020 | 1393 | 2577 | 1672 | 1393 | 4249 |
| 7 | 125 | 1448 | 1931 | 2414 | 2124 | 1641 | 1641 | 1834 | 2317 | 2510 | 2800 | 1931 | 3572 | 2317 | 1931 | 5890 |
| 8 | 125 | 1844 | 2459 | 3074 | 2705 | 2090 | 2090 | 2336 | 2951 | 3197 | 3566 | 2459 | 4549 | 2951 | 2459 | 7500 |

Tight Rust or Millscale

New Steel

Low Profile Range

SSPC-SP 6

Tables 2331 C C

| Operating Conditions | | Consumption Rate lbs/hr of Blasting | | | | | | | | | | | | | | |
|----------------------|----------------|-------------------------------------|--------|------|-----------------------------|------|--------|------|--------------------------------|------------|--------|--------|--------------|---------|-------|------|
| | | Typical Mineral Abrasive | | | Refinery & By-Product Grits | | | | Natural or Mined Grits & Sands | | | | Manufactured | | | |
| Nozzle Size | Pressure (psi) | -25% | Median | +25% | Copper | Coal | Nickel | Iron | Olivine | Staurolite | Garnet | Silica | Zircon | Alumina | Glass | Iron |
| 6 | 90 | 789 | 1052 | 1315 | 1157 | 894 | 894 | 999 | 1262 | 1368 | 1525 | 1052 | 1946 | 1262 | 1052 | 3209 |
| 7 | 90 | 1086 | 1448 | 1810 | 1593 | 1231 | 1231 | 1376 | 1738 | 1882 | 2100 | 1448 | 2679 | 1738 | 1448 | 4416 |
| 8 | 90 | 1392 | 1856 | 2320 | 2042 | 1578 | 1578 | 1763 | 2227 | 2413 | 2691 | 1856 | 3434 | 2227 | 1856 | 5661 |
| 6 | 100 | 864 | 1152 | 1440 | 1267 | 979 | 979 | 1094 | 1382 | 1498 | 1670 | 1152 | 2131 | 1382 | 1152 | 3514 |
| 7 | 100 | 1188 | 1584 | 1980 | 1742 | 1346 | 1346 | 1505 | 1901 | 2059 | 2297 | 1584 | 2930 | 1901 | 1584 | 4831 |
| 8 | 100 | 1518 | 2024 | 2530 | 2226 | 1720 | 1720 | 1923 | 2429 | 2631 | 2935 | 2024 | 3744 | 2429 | 2024 | 6173 |
| 6 | 110 | 920 | 1226 | 1533 | 1349 | 1042 | 1042 | 1165 | 1471 | 1594 | 1778 | 1226 | 2268 | 1471 | 1226 | 3739 |
| 7 | 110 | 1274 | 1699 | 2124 | 1869 | 1444 | 1444 | 1614 | 2039 | 2209 | 2464 | 1699 | 3143 | 2039 | 1699 | 5182 |
| 8 | 110 | 1623 | 2164 | 2705 | 2380 | 1839 | 1839 | 2056 | 2597 | 2813 | 3138 | 2164 | 4003 | 2597 | 2164 | 6600 |
| 6 | 125 | 1045 | 1393 | 1741 | 1532 | 1184 | 1184 | 1323 | 1672 | 1811 | 2020 | 1393 | 2577 | 1672 | 1393 | 4249 |
| 7 | 125 | 1448 | 1931 | 2414 | 2124 | 1641 | 1641 | 1834 | 2317 | 2510 | 2800 | 1931 | 3572 | 2317 | 1931 | 5890 |
| 8 | 125 | 1844 | 2459 | 3074 | 2705 | 2090 | 2090 | 2336 | 2951 | 3197 | 3566 | 2459 | 4549 | 2951 | 2459 | 7500 |

Tight Rust or Millscale

New Steel

Low Profile Range

SSPC-SP 6

Tables 2331 C C

| Operating Conditions | | Consumption Rate lbs/hr of Blasting | | | | | | | | | | | | | | |
|----------------------|----------------|-------------------------------------|--------|------|-----------------------------|------|--------|------|--------------------------------|------------|--------|--------|--------------|---------|-------|------|
| | | Typical Mineral Abrasive | | | Refinery & By-Product Grits | | | | Natural or Mined Grits & Sands | | | | Manufactured | | | |
| Nozzle Size | Pressure (psi) | -25% | Median | +25% | Copper | Coal | Nickel | Iron | Olivine | Staurolite | Garnet | Silica | Zircon | Alumina | Glass | Iron |
| 6 | 90 | 789 | 1052 | 1315 | 1157 | 894 | 894 | 999 | 1262 | 1368 | 1525 | 1052 | 1946 | 1262 | 1052 | 3209 |
| 7 | 90 | 1086 | 1448 | 1810 | 1593 | 1231 | 1231 | 1376 | 1738 | 1882 | 2100 | 1448 | 2679 | 1738 | 1448 | 4416 |
| 8 | 90 | 1392 | 1856 | 2320 | 2042 | 1578 | 1578 | 1763 | 2227 | 2413 | 2691 | 1856 | 3434 | 2227 | 1856 | 5661 |
| 6 | 100 | 864 | 1152 | 1440 | 1267 | 979 | 979 | 1094 | 1382 | 1498 | 1670 | 1152 | 2131 | 1382 | 1152 | 3514 |
| 7 | 100 | 1188 | 1584 | 1980 | 1742 | 1346 | 1346 | 1505 | 1901 | 2059 | 2297 | 1584 | 2930 | 1901 | 1584 | 4831 |
| 8 | 100 | 1518 | 2024 | 2530 | 2226 | 1720 | 1720 | 1923 | 2429 | 2631 | 2935 | 2024 | 3744 | 2429 | 2024 | 6173 |
| 6 | 110 | 920 | 1226 | 1533 | 1349 | 1042 | 1042 | 1165 | 1471 | 1594 | 1778 | 1226 | 2268 | 1471 | 1226 | 3739 |
| 7 | 110 | 1274 | 1699 | 2124 | 1869 | 1444 | 1444 | 1614 | 2039 | 2209 | 2464 | 1699 | 3143 | 2039 | 1699 | 5182 |
| 8 | 110 | 1623 | 2164 | 2705 | 2380 | 1839 | 1839 | 2056 | 2597 | 2813 | 3138 | 2164 | 4003 | 2597 | 2164 | 6600 |
| 6 | 125 | 1045 | 1393 | 1741 | 1532 | 1184 | 1184 | 1323 | 1672 | 1811 | 2020 | 1393 | 2577 | 1672 | 1393 | 4249 |
| 7 | 125 | 1448 | 1931 | 2414 | 2124 | 1641 | 1641 | 1834 | 2317 | 2510 | 2800 | 1931 | 3572 | 2317 | 1931 | 5890 |
| 8 | 125 | 1844 | 2459 | 3074 | 2705 | 2090 | 2090 | 2336 | 2951 | 3197 | 3566 | 2459 | 4549 | 2951 | 2459 | 7500 |

Tight Rust or Millscale

New Steel

Medium Profile Range

SSPC-SP 6

Tables 2332 C C

| Operating Conditions | | Consumption Rate lbs/hr of Blasting | | | | | | | | | | | | | | |
|----------------------|----------------|-------------------------------------|--------|------|-----------------------------|------|--------|------|--------------------------------|------------|--------|--------|--------------|---------|-------|------|
| | | Typical Mineral Abrasive | | | Refinery & By-Product Grits | | | | Natural or Mined Grits & Sands | | | | Manufactured | | | |
| Nozzle Size | Pressure (psi) | -25% | Median | +25% | Copper | Coal | Nickel | Iron | Olivine | Staurolite | Garnet | Silica | Zircon | Alumina | Glass | Iron |
| 6 | 90 | 789 | 1052 | 1315 | 1157 | 894 | 894 | 999 | 1262 | 1368 | 1525 | 1052 | 1946 | 1262 | 1052 | 3209 |
| 7 | 90 | 1086 | 1448 | 1810 | 1593 | 1231 | 1231 | 1376 | 1738 | 1882 | 2100 | 1448 | 2679 | 1738 | 1448 | 4416 |
| 8 | 90 | 1392 | 1856 | 2320 | 2042 | 1578 | 1578 | 1763 | 2227 | 2413 | 2691 | 1856 | 3434 | 2227 | 1856 | 5661 |
| 6 | 100 | 864 | 1152 | 1440 | 1267 | 979 | 979 | 1094 | 1382 | 1498 | 1670 | 1152 | 2131 | 1382 | 1152 | 3514 |
| 7 | 100 | 1188 | 1584 | 1980 | 1742 | 1346 | 1346 | 1505 | 1901 | 2059 | 2297 | 1584 | 2930 | 1901 | 1584 | 4831 |
| 8 | 100 | 1518 | 2024 | 2530 | 2226 | 1720 | 1720 | 1923 | 2429 | 2631 | 2935 | 2024 | 3744 | 2429 | 2024 | 6173 |
| 6 | 110 | 920 | 1226 | 1533 | 1349 | 1042 | 1042 | 1165 | 1471 | 1594 | 1778 | 1226 | 2268 | 1471 | 1226 | 3739 |
| 7 | 110 | 1274 | 1699 | 2124 | 1869 | 1444 | 1444 | 1614 | 2039 | 2209 | 2464 | 1699 | 3143 | 2039 | 1699 | 5182 |
| 8 | 110 | 1623 | 2164 | 2705 | 2380 | 1839 | 1839 | 2056 | 2597 | 2813 | 3138 | 2164 | 4003 | 2597 | 2164 | 6600 |
| 6 | 125 | 1045 | 1393 | 1741 | 1532 | 1184 | 1184 | 1323 | 1672 | 1811 | 2020 | 1393 | 2577 | 1672 | 1393 | 4249 |
| 7 | 125 | 1448 | 1931 | 2414 | 2124 | 1641 | 1641 | 1834 | 2317 | 2510 | 2800 | 1931 | 3572 | 2317 | 1931 | 5890 |
| 8 | 125 | 1844 | 2459 | 3074 | 2705 | 2090 | 2090 | 2336 | 2951 | 3197 | 3566 | 2459 | 4549 | 2951 | 2459 | 7500 |

Tight Rust or Millscale

New Steel

Medium Profile Range

SSPC-SP 6

Tables 2332 C C

| Operating Conditions | | Consumption Rate lbs/hr of Blasting | | | | | | | | | | | | | | |
|----------------------|----------------|-------------------------------------|--------|------|-----------------------------|------|--------|------|--------------------------------|------------|--------|--------|--------------|---------|-------|------|
| | | Typical Mineral Abrasive | | | Refinery & By-Product Grits | | | | Natural or Mined Grits & Sands | | | | Manufactured | | | |
| Nozzle Size | Pressure (psi) | -25% | Median | +25% | Copper | Coal | Nickel | Iron | Olivine | Staurolite | Garnet | Silica | Zircon | Alumina | Glass | Iron |
| 6 | 90 | 789 | 1052 | 1315 | 1157 | 894 | 894 | 999 | 1262 | 1368 | 1525 | 1052 | 1946 | 1262 | 1052 | 3209 |
| 7 | 90 | 1086 | 1448 | 1810 | 1593 | 1231 | 1231 | 1376 | 1738 | 1882 | 2100 | 1448 | 2679 | 1738 | 1448 | 4416 |
| 8 | 90 | 1392 | 1856 | 2320 | 2042 | 1578 | 1578 | 1763 | 2227 | 2413 | 2691 | 1856 | 3434 | 2227 | 1856 | 5661 |
| 6 | 100 | 864 | 1152 | 1440 | 1267 | 979 | 979 | 1094 | 1382 | 1498 | 1670 | 1152 | 2131 | 1382 | 1152 | 3514 |
| 7 | 100 | 1188 | 1584 | 1980 | 1742 | 1346 | 1346 | 1505 | 1901 | 2059 | 2297 | 1584 | 2930 | 1901 | 1584 | 4831 |
| 8 | 100 | 1518 | 2024 | 2530 | 2226 | 1720 | 1720 | 1923 | 2429 | 2631 | 2935 | 2024 | 3744 | 2429 | 2024 | 6173 |
| 6 | 110 | 920 | 1226 | 1533 | 1349 | 1042 | 1042 | 1165 | 1471 | 1594 | 1778 | 1226 | 2268 | 1471 | 1226 | 3739 |
| 7 | 110 | 1274 | 1699 | 2124 | 1869 | 1444 | 1444 | 1614 | 2039 | 2209 | 2464 | 1699 | 3143 | 2039 | 1699 | 5182 |
| 8 | 110 | 1623 | 2164 | 2705 | 2380 | 1839 | 1839 | 2056 | 2597 | 2813 | 3138 | 2164 | 4003 | 2597 | 2164 | 6600 |
| 6 | 125 | 1045 | 1393 | 1741 | 1532 | 1184 | 1184 | 1323 | 1672 | 1811 | 2020 | 1393 | 2577 | 1672 | 1393 | 4249 |
| 7 | 125 | 1448 | 1931 | 2414 | 2124 | 1641 | 1641 | 1834 | 2317 | 2510 | 2800 | 1931 | 3572 | 2317 | 1931 | 5890 |
| 8 | 125 | 1844 | 2459 | 3074 | 2705 | 2090 | 2090 | 2336 | 2951 | 3197 | 3566 | 2459 | 4549 | 2951 | 2459 | 7500 |

Tight Rust or Millscale

New Steel

High Profile Range

SSPC-SP 6

Tables 2333 CC

| Operating Conditions | | Consumption Rate lbs/hr of Blasting | | | | | | | | | | | | | | |
|----------------------|----------------|-------------------------------------|--------|------|-----------------------------|------|--------|------|--------------------------------|------------|--------|--------|--------------|---------|-------|------|
| | | Typical Mineral Abrasive | | | Refinery & By-Product Grits | | | | Natural or Mined Grits & Sands | | | | Manufactured | | | |
| Nozzle Size | Pressure (psi) | -25% | Median | +25% | Copper | Coal | Nickel | Iron | Olivine | Staurolite | Garnet | Silica | Zircon | Alumina | Glass | Iron |
| 6 | 90 | 789 | 1052 | 1315 | 1157 | 894 | 894 | 999 | 1262 | 1368 | 1525 | 1052 | 1946 | 1262 | 1052 | 3209 |
| 7 | 90 | 1086 | 1448 | 1810 | 1593 | 1231 | 1231 | 1376 | 1738 | 1882 | 2100 | 1448 | 2679 | 1738 | 1448 | 4416 |
| 8 | 90 | 1392 | 1856 | 2320 | 2042 | 1578 | 1578 | 1763 | 2227 | 2413 | 2691 | 1856 | 3434 | 2227 | 1856 | 5661 |
| 6 | 100 | 864 | 1152 | 1440 | 1267 | 979 | 979 | 1094 | 1382 | 1498 | 1670 | 1152 | 2131 | 1382 | 1152 | 3514 |
| 7 | 100 | 1188 | 1584 | 1980 | 1742 | 1346 | 1346 | 1505 | 1901 | 2059 | 2297 | 1584 | 2930 | 1901 | 1584 | 4831 |
| 8 | 100 | 1518 | 2024 | 2530 | 2226 | 1720 | 1720 | 1923 | 2429 | 2631 | 2935 | 2024 | 3744 | 2429 | 2024 | 6173 |
| 6 | 110 | 920 | 1226 | 1533 | 1349 | 1042 | 1042 | 1165 | 1471 | 1594 | 1778 | 1226 | 2268 | 1471 | 1226 | 3739 |
| 7 | 110 | 1274 | 1699 | 2124 | 1869 | 1444 | 1444 | 1614 | 2039 | 2209 | 2464 | 1699 | 3143 | 2039 | 1699 | 5182 |
| 8 | 110 | 1623 | 2164 | 2705 | 2380 | 1839 | 1839 | 2056 | 2597 | 2813 | 3138 | 2164 | 4003 | 2597 | 2164 | 6600 |
| 6 | 125 | 1045 | 1393 | 1741 | 1532 | 1184 | 1184 | 1323 | 1672 | 1811 | 2020 | 1393 | 2577 | 1672 | 1393 | 4249 |
| 7 | 125 | 1448 | 1931 | 2414 | 2124 | 1641 | 1641 | 1834 | 2317 | 2510 | 2800 | 1931 | 3572 | 2317 | 1931 | 5890 |
| 8 | 125 | 1844 | 2459 | 3074 | 2705 | 2090 | 2090 | 2336 | 2951 | 3197 | 3566 | 2459 | 4549 | 2951 | 2459 | 7500 |

Tight Rust or Millscale

New Steel

High Profile Range

SSPC-SP 6

Tables 2333 C C

| Operating Conditions | | Consumption Rate lbs/hr of Blasting | | | | | | | | | | | | | | |
|----------------------|----------------|-------------------------------------|--------|------|-----------------------------|------|--------|------|--------------------------------|------------|--------|--------|--------------|---------|-------|------|
| | | Typical Mineral Abrasive | | | Refinery & By-Product Grits | | | | Natural or Mined Grits & Sands | | | | Manufactured | | | |
| Nozzle Size | Pressure (psi) | -25% | Median | +25% | Copper | Coal | Nickel | Iron | Olivine | Staurolite | Garnet | Silica | Zircon | Alumina | Glass | Iron |
| 6 | 90 | 789 | 1052 | 1315 | 1157 | 894 | 894 | 999 | 1262 | 1368 | 1525 | 1052 | 1946 | 1262 | 1052 | 3209 |
| 7 | 90 | 1086 | 1448 | 1810 | 1593 | 1231 | 1231 | 1376 | 1738 | 1882 | 2100 | 1448 | 2679 | 1738 | 1448 | 4416 |
| 8 | 90 | 1392 | 1856 | 2320 | 2042 | 1578 | 1578 | 1763 | 2227 | 2413 | 2691 | 1856 | 3434 | 2227 | 1856 | 5661 |
| 6 | 100 | 864 | 1152 | 1440 | 1267 | 979 | 979 | 1094 | 1382 | 1498 | 1670 | 1152 | 2131 | 1382 | 1152 | 3514 |
| 7 | 100 | 1188 | 1584 | 1980 | 1742 | 1346 | 1346 | 1505 | 1901 | 2059 | 2297 | 1584 | 2930 | 1901 | 1584 | 4831 |
| 8 | 100 | 1518 | 2024 | 2530 | 2226 | 1720 | 1720 | 1923 | 2429 | 2631 | 2935 | 2024 | 3744 | 2429 | 2024 | 6173 |
| 6 | 110 | 920 | 1226 | 1533 | 1349 | 1042 | 1042 | 1165 | 1471 | 1594 | 1778 | 1226 | 2268 | 1471 | 1226 | 3739 |
| 7 | 110 | 1274 | 1699 | 2124 | 1869 | 1444 | 1444 | 1614 | 2039 | 2209 | 2464 | 1699 | 3143 | 2039 | 1699 | 5182 |
| 8 | 110 | 1623 | 2164 | 2705 | 2380 | 1839 | 1839 | 2056 | 2597 | 2813 | 3138 | 2164 | 4003 | 2597 | 2164 | 6600 |
| 6 | 125 | 1045 | 1393 | 1741 | 1532 | 1184 | 1184 | 1323 | 1672 | 1811 | 2020 | 1393 | 2577 | 1672 | 1393 | 4249 |
| 7 | 125 | 1448 | 1931 | 2414 | 2124 | 1641 | 1641 | 1834 | 2317 | 2510 | 2800 | 1931 | 3572 | 2317 | 1931 | 5890 |
| 8 | 125 | 1844 | 2459 | 3074 | 2705 | 2090 | 2090 | 2336 | 2951 | 3197 | 3566 | 2459 | 4549 | 2951 | 2459 | 7500 |

Tight Rust or Millscale

New Steel

Low Profile Range

SSPC-SP 7

Tables 2341 C C

| Operating Conditions | | Consumption Rate lbs/hr of Blasting | | | | | | | | | | | | | | |
|----------------------|----------------|-------------------------------------|--------|------|-----------------------------|------|--------|------|--------------------------------|------------|--------|--------|--------------|---------|-------|------|
| | | Typical Mineral Abrasive | | | Refinery & By-Product Grits | | | | Natural or Mined Grits & Sands | | | | Manufactured | | | |
| Nozzle Size | Pressure (psi) | -25% | Median | +25% | Copper | Coal | Nickel | Iron | Olivine | Staurolite | Garnet | Silica | Zircon | Alumina | Glass | Iron |
| 6 | 90 | 789 | 1052 | 1315 | 1157 | 894 | 894 | 999 | 1262 | 1368 | 1525 | 1052 | 1946 | 1262 | 1052 | 3209 |
| 7 | 90 | 1086 | 1448 | 1810 | 1593 | 1231 | 1231 | 1376 | 1738 | 1882 | 2100 | 1448 | 2679 | 1738 | 1448 | 4416 |
| 8 | 90 | 1392 | 1856 | 2320 | 2042 | 1578 | 1578 | 1763 | 2227 | 2413 | 2691 | 1856 | 3434 | 2227 | 1856 | 5661 |
| 6 | 100 | 864 | 1152 | 1440 | 1267 | 979 | 979 | 1094 | 1382 | 1498 | 1670 | 1152 | 2131 | 1382 | 1152 | 3514 |
| 7 | 100 | 1188 | 1584 | 1980 | 1742 | 1346 | 1346 | 1505 | 1901 | 2059 | 2297 | 1584 | 2930 | 1901 | 1584 | 4831 |
| 8 | 100 | 1518 | 2024 | 2530 | 2226 | 1720 | 1720 | 1923 | 2429 | 2631 | 2935 | 2024 | 3744 | 2429 | 2024 | 6173 |
| 6 | 110 | 920 | 1226 | 1533 | 1349 | 1042 | 1042 | 1165 | 1471 | 1594 | 1778 | 1226 | 2268 | 1471 | 1226 | 3739 |
| 7 | 110 | 1274 | 1699 | 2124 | 1869 | 1444 | 1444 | 1614 | 2039 | 2209 | 2464 | 1699 | 3143 | 2039 | 1699 | 5182 |
| 8 | 110 | 1623 | 2164 | 2705 | 2380 | 1839 | 1839 | 2056 | 2597 | 2813 | 3138 | 2164 | 4003 | 2597 | 2164 | 6600 |
| 6 | 125 | 1045 | 1393 | 1741 | 1532 | 1184 | 1184 | 1323 | 1672 | 1811 | 2020 | 1393 | 2577 | 1672 | 1393 | 4249 |
| 7 | 125 | 1448 | 1931 | 2414 | 2124 | 1641 | 1641 | 1834 | 2317 | 2510 | 2800 | 1931 | 3572 | 2317 | 1931 | 5890 |
| 8 | 125 | 1844 | 2459 | 3074 | 2705 | 2090 | 2090 | 2336 | 2951 | 3197 | 3566 | 2459 | 4549 | 2951 | 2459 | 7500 |

Tight Rust or Millscale

New Steel

Low Profile Range

SSPC-SP 7

Tables 2341 C C

| Operating Conditions | | Consumption Rate lbs/hr of Blasting | | | | | | | | | | | | | | |
|----------------------|----------------|-------------------------------------|--------|------|-----------------------------|------|--------|------|--------------------------------|------------|--------|--------|--------------|---------|-------|------|
| | | Typical Mineral Abrasive | | | Refinery & By-Product Grits | | | | Natural or Mined Grits & Sands | | | | Manufactured | | | |
| Nozzle Size | Pressure (psi) | -25% | Median | +25% | Copper | Coal | Nickel | Iron | Olivine | Staurolite | Garnet | Silica | Zircon | Alumina | Glass | Iron |
| 6 | 90 | 789 | 1052 | 1315 | 1157 | 894 | 894 | 999 | 1262 | 1368 | 1525 | 1052 | 1946 | 1262 | 1052 | 3209 |
| 7 | 90 | 1086 | 1448 | 1810 | 1593 | 1231 | 1231 | 1376 | 1738 | 1882 | 2100 | 1448 | 2679 | 1738 | 1448 | 4416 |
| 8 | 90 | 1392 | 1856 | 2320 | 2042 | 1578 | 1578 | 1763 | 2227 | 2413 | 2691 | 1856 | 3434 | 2227 | 1856 | 5661 |
| 6 | 100 | 864 | 1152 | 1440 | 1267 | 979 | 979 | 1094 | 1382 | 1498 | 1670 | 1152 | 2131 | 1382 | 1152 | 3514 |
| 7 | 100 | 1188 | 1584 | 1980 | 1742 | 1346 | 1346 | 1505 | 1901 | 2059 | 2297 | 1584 | 2930 | 1901 | 1584 | 4831 |
| 8 | 100 | 1518 | 2024 | 2530 | 2226 | 1720 | 1720 | 1923 | 2429 | 2631 | 2935 | 2024 | 3744 | 2429 | 2024 | 6173 |
| 6 | 110 | 920 | 1226 | 1533 | 1349 | 1042 | 1042 | 1165 | 1471 | 1594 | 1778 | 1226 | 2268 | 1471 | 1226 | 3739 |
| 7 | 110 | 1274 | 1699 | 2124 | 1869 | 1444 | 1444 | 1614 | 2039 | 2209 | 2464 | 1699 | 3143 | 2039 | 1699 | 5182 |
| 8 | 110 | 1623 | 2164 | 2705 | 2380 | 1839 | 1839 | 2056 | 2597 | 2813 | 3138 | 2164 | 4003 | 2597 | 2164 | 6600 |
| 6 | 125 | 1045 | 1393 | 1741 | 1532 | 1184 | 1184 | 1323 | 1672 | 1811 | 2020 | 1393 | 2577 | 1672 | 1393 | 4249 |
| 7 | 125 | 1448 | 1931 | 2414 | 2124 | 1641 | 1641 | 1834 | 2317 | 2510 | 2800 | 1931 | 3572 | 2317 | 1931 | 5890 |
| 8 | 125 | 1844 | 2459 | 3074 | 2705 | 2090 | 2090 | 2336 | 2951 | 3197 | 3566 | 2459 | 4549 | 2951 | 2459 | 7500 |

Thin Paint or Rusted Thin Paint

Hard Coating

Low Profile Range

SSPC-SP 5

Tables 3111 CC

| Operating Conditions | | Consumption Rate lbs/hr of Blasting | | | | | | | | | | | | | | |
|----------------------|----------------|-------------------------------------|--------|------|-----------------------------|------|--------|------|--------------------------------|------------|--------|--------|--------------|---------|-------|------|
| | | Typical Mineral Abrasive | | | Refinery & By-Product Grits | | | | Natural or Mined Grits & Sands | | | | Manufactured | | | |
| Nozzle Size | Pressure (psi) | -25% | Median | +25% | Copper | Coal | Nickel | Iron | Olivine | Staurolite | Garnet | Silica | Zircon | Alumina | Glass | Iron |
| 6 | 90 | 789 | 1052 | 1315 | 1157 | 894 | 894 | 999 | 1262 | 1368 | 1525 | 1052 | 1946 | 1262 | 1052 | 3209 |
| 7 | 90 | 1086 | 1448 | 1810 | 1593 | 1231 | 1231 | 1376 | 1738 | 1882 | 2100 | 1448 | 2679 | 1738 | 1448 | 4416 |
| 8 | 90 | 1392 | 1856 | 2320 | 2042 | 1578 | 1578 | 1763 | 2227 | 2413 | 2691 | 1856 | 3434 | 2227 | 1856 | 5661 |
| 6 | 100 | 864 | 1152 | 1440 | 1267 | 979 | 979 | 1094 | 1382 | 1498 | 1670 | 1152 | 2131 | 1382 | 1152 | 3514 |
| 7 | 100 | 1188 | 1584 | 1980 | 1742 | 1346 | 1346 | 1505 | 1901 | 2059 | 2297 | 1584 | 2930 | 1901 | 1584 | 4831 |
| 8 | 100 | 1518 | 2024 | 2530 | 2226 | 1720 | 1720 | 1923 | 2429 | 2631 | 2935 | 2024 | 3744 | 2429 | 2024 | 6173 |
| 6 | 110 | 920 | 1226 | 1533 | 1349 | 1042 | 1042 | 1165 | 1471 | 1594 | 1778 | 1226 | 2268 | 1471 | 1226 | 3739 |
| 7 | 110 | 1274 | 1699 | 2124 | 1869 | 1444 | 1444 | 1614 | 2039 | 2209 | 2464 | 1699 | 3143 | 2039 | 1699 | 5182 |
| 8 | 110 | 1623 | 2164 | 2705 | 2380 | 1839 | 1839 | 2056 | 2597 | 2813 | 3138 | 2164 | 4003 | 2597 | 2164 | 6600 |
| 6 | 125 | 1045 | 1393 | 1741 | 1532 | 1184 | 1184 | 1323 | 1672 | 1811 | 2020 | 1393 | 2577 | 1672 | 1393 | 4249 |
| 7 | 125 | 1448 | 1931 | 2414 | 2124 | 1641 | 1641 | 1834 | 2317 | 2510 | 2800 | 1931 | 3572 | 2317 | 1931 | 5890 |
| 8 | 125 | 1844 | 2459 | 3074 | 2705 | 2090 | 2090 | 2336 | 2951 | 3197 | 3566 | 2459 | 4549 | 2951 | 2459 | 7500 |

Thin Paint or Rusted Thin Paint

Hard Coating

Medium Profile Range

SSPC-SP 5

Tables 3112 CC

| Operating Conditions | | Consumption Rate lbs/hr of Blasting | | | | | | | | | | | | | | |
|----------------------|----------------|-------------------------------------|--------|------|-----------------------------|------|--------|------|--------------------------------|------------|--------|--------|--------------|---------|-------|------|
| | | Typical Mineral Abrasive | | | Refinery & By-Product Grits | | | | Natural or Mined Grits & Sands | | | | Manufactured | | | |
| Nozzle Size | Pressure (psi) | -25% | Median | +25% | Copper | Coal | Nickel | Iron | Olivine | Staurolite | Garnet | Silica | Zircon | Alumina | Glass | Iron |
| 6 | 90 | 789 | 1052 | 1315 | 1157 | 894 | 894 | 999 | 1262 | 1368 | 1525 | 1052 | 1946 | 1262 | 1052 | 3209 |
| 7 | 90 | 1086 | 1448 | 1810 | 1593 | 1231 | 1231 | 1376 | 1738 | 1882 | 2100 | 1448 | 2679 | 1738 | 1448 | 4416 |
| 8 | 90 | 1392 | 1856 | 2320 | 2042 | 1578 | 1578 | 1763 | 2227 | 2413 | 2691 | 1856 | 3434 | 2227 | 1856 | 5661 |
| 6 | 100 | 864 | 1152 | 1440 | 1267 | 979 | 979 | 1094 | 1382 | 1498 | 1670 | 1152 | 2131 | 1382 | 1152 | 3514 |
| 7 | 100 | 1188 | 1584 | 1980 | 1742 | 1346 | 1346 | 1505 | 1901 | 2059 | 2297 | 1584 | 2930 | 1901 | 1584 | 4831 |
| 8 | 100 | 1518 | 2024 | 2530 | 2226 | 1720 | 1720 | 1923 | 2429 | 2631 | 2935 | 2024 | 3744 | 2429 | 2024 | 6173 |
| 6 | 110 | 920 | 1226 | 1533 | 1349 | 1042 | 1042 | 1165 | 1471 | 1594 | 1778 | 1226 | 2268 | 1471 | 1226 | 3739 |
| 7 | 110 | 1274 | 1699 | 2124 | 1869 | 1444 | 1444 | 1614 | 2039 | 2209 | 2464 | 1699 | 3143 | 2039 | 1699 | 5182 |
| 8 | 110 | 1623 | 2164 | 2705 | 2380 | 1839 | 1839 | 2056 | 2597 | 2813 | 3138 | 2164 | 4003 | 2597 | 2164 | 6600 |
| 6 | 125 | 1045 | 1393 | 1741 | 1532 | 1184 | 1184 | 1323 | 1672 | 1811 | 2020 | 1393 | 2577 | 1672 | 1393 | 4249 |
| 7 | 125 | 1448 | 1931 | 2414 | 2124 | 1641 | 1641 | 1834 | 2317 | 2510 | 2800 | 1931 | 3572 | 2317 | 1931 | 5890 |
| 8 | 125 | 1844 | 2459 | 3074 | 2705 | 2090 | 2090 | 2336 | 2951 | 3197 | 3566 | 2459 | 4549 | 2951 | 2459 | 7500 |

Thin Paint or Rusted Thin Paint

Hard Coating

High Profile Range

SSPC-SP 5

Tables 3113 CC

| Operating Conditions | | Consumption Rate lbs/hr of Blasting | | | | | | | | | | | | | | |
|----------------------|----------------|-------------------------------------|--------|------|-----------------------------|------|--------|------|--------------------------------|------------|--------|--------|--------------|---------|-------|------|
| | | Typical Mineral Abrasive | | | Refinery & By-Product Grits | | | | Natural or Mined Grits & Sands | | | | Manufactured | | | |
| Nozzle Size | Pressure (psi) | -25% | Median | +25% | Copper | Coal | Nickel | Iron | Olivine | Staurolite | Garnet | Silica | Zircon | Alumina | Glass | Iron |
| 6 | 90 | 789 | 1052 | 1315 | 1157 | 894 | 894 | 999 | 1262 | 1368 | 1525 | 1052 | 1946 | 1262 | 1052 | 3209 |
| 7 | 90 | 1086 | 1448 | 1810 | 1593 | 1231 | 1231 | 1376 | 1738 | 1882 | 2100 | 1448 | 2679 | 1738 | 1448 | 4416 |
| 8 | 90 | 1392 | 1856 | 2320 | 2042 | 1578 | 1578 | 1763 | 2227 | 2413 | 2691 | 1856 | 3434 | 2227 | 1856 | 5661 |
| 6 | 100 | 864 | 1152 | 1440 | 1267 | 979 | 979 | 1094 | 1382 | 1498 | 1670 | 1152 | 2131 | 1382 | 1152 | 3514 |
| 7 | 100 | 1188 | 1584 | 1980 | 1742 | 1346 | 1346 | 1505 | 1901 | 2059 | 2297 | 1584 | 2930 | 1901 | 1584 | 4831 |
| 8 | 100 | 1518 | 2024 | 2530 | 2226 | 1720 | 1720 | 1923 | 2429 | 2631 | 2935 | 2024 | 3744 | 2429 | 2024 | 6173 |
| 6 | 110 | 920 | 1226 | 1533 | 1349 | 1042 | 1042 | 1165 | 1471 | 1594 | 1778 | 1226 | 2268 | 1471 | 1226 | 3739 |
| 7 | 110 | 1274 | 1699 | 2124 | 1869 | 1444 | 1444 | 1614 | 2039 | 2209 | 2464 | 1699 | 3143 | 2039 | 1699 | 5182 |
| 8 | 110 | 1623 | 2164 | 2705 | 2380 | 1839 | 1839 | 2056 | 2597 | 2813 | 3138 | 2164 | 4003 | 2597 | 2164 | 6600 |
| 6 | 125 | 1045 | 1393 | 1741 | 1532 | 1184 | 1184 | 1323 | 1672 | 1811 | 2020 | 1393 | 2577 | 1672 | 1393 | 4249 |
| 7 | 125 | 1448 | 1931 | 2414 | 2124 | 1641 | 1641 | 1834 | 2317 | 2510 | 2800 | 1931 | 3572 | 2317 | 1931 | 5890 |
| 8 | 125 | 1844 | 2459 | 3074 | 2705 | 2090 | 2090 | 2336 | 2951 | 3197 | 3566 | 2459 | 4549 | 2951 | 2459 | 7500 |

Thin Paint or Rusted Thin Paint

Hard Coating

Low Profile Range

SSPC-SP 10

Tables 3121 CC

| Operating Conditions | | Consumption Rate lbs/hr of Blasting | | | | | | | | | | | | | | |
|----------------------|----------------|-------------------------------------|--------|------|-----------------------------|------|--------|------|--------------------------------|------------|--------|--------|--------------|---------|-------|------|
| | | Typical Mineral Abrasive | | | Refinery & By-Product Grits | | | | Natural or Mined Grits & Sands | | | | Manufactured | | | |
| Nozzle Size | Pressure (psi) | -25% | Median | +25% | Copper | Coal | Nickel | Iron | Olivine | Staurolite | Garnet | Silica | Zircon | Alumina | Glass | |
| 6 | 90 | 789 | 1052 | 1315 | 1157 | 894 | 894 | 999 | 1262 | 1368 | 1525 | 1052 | 1946 | 1262 | 1052 | 3209 |
| 7 | 90 | 1086 | 1448 | 1810 | 1593 | 1231 | 1231 | 1376 | 1738 | 1882 | 2100 | 1448 | 2679 | 1738 | 1448 | 4416 |
| 8 | 90 | 1392 | 1856 | 2320 | 2042 | 1578 | 1578 | 1763 | 2227 | 2413 | 2691 | 1856 | 3434 | 2227 | 1856 | 5661 |
| 6 | 100 | 864 | 1152 | 1440 | 1267 | 979 | 979 | 1094 | 1382 | 1498 | 1670 | 1152 | 2131 | 1382 | 1152 | 3514 |
| 7 | 100 | 1188 | 1584 | 1980 | 1742 | 1346 | 1346 | 1505 | 1901 | 2059 | 2297 | 1584 | 2930 | 1901 | 1584 | 4831 |
| 8 | 100 | 1518 | 2024 | 2530 | 2226 | 1720 | 1720 | 1923 | 2429 | 2631 | 2935 | 2024 | 3744 | 2429 | 2024 | 6173 |
| 6 | 110 | 920 | 1226 | 1533 | 1349 | 1042 | 1042 | 1165 | 1471 | 1594 | 1778 | 1226 | 2268 | 1471 | 1226 | 3739 |
| 7 | 110 | 1274 | 1699 | 2124 | 1869 | 1444 | 1444 | 1614 | 2039 | 2209 | 2464 | 1699 | 3143 | 2039 | 1699 | 5182 |
| 8 | 110 | 1623 | 2164 | 2705 | 2380 | 1839 | 1839 | 2056 | 2597 | 2813 | 3138 | 2164 | 4003 | 2597 | 2164 | 6600 |
| 6 | 125 | 1045 | 1393 | 1741 | 1532 | 1184 | 1184 | 1323 | 1672 | 1811 | 2020 | 1393 | 2577 | 1672 | 1393 | 4249 |
| 7 | 125 | 1448 | 1931 | 2414 | 2124 | 1641 | 1641 | 1834 | 2317 | 2510 | 2800 | 1931 | 3572 | 2317 | 1931 | 5890 |
| 8 | 125 | 1844 | 2459 | 3074 | 2705 | 2090 | 2090 | 2336 | 2951 | 3197 | 3566 | 2459 | 4549 | 2951 | 2459 | 7500 |

Thin Paint or Rusted Thin Paint

Hard Coating

Medium Profile Range

SSPC-SP 10

Tables 3122 CC

| Operating Conditions | | Consumption Rate lbs/hr of Blasting | | | | | | | | | | | | | | |
|----------------------|----------------|-------------------------------------|--------|------|-----------------------------|------|--------|------|--------------------------------|------------|--------|--------|--------------|---------|-------|------|
| | | Typical Mineral Abrasive | | | Refinery & By-Product Grits | | | | Natural or Mined Grits & Sands | | | | Manufactured | | | |
| Nozzle Size | Pressure (psi) | -25% | Median | +25% | Copper | Coal | Nickel | Iron | Olivine | Staurolite | Garnet | Silica | Zircon | Alumina | Glass | |
| 6 | 90 | 789 | 1052 | 1315 | 1157 | 894 | 894 | 999 | 1262 | 1368 | 1525 | 1052 | 1946 | 1262 | 1052 | 3209 |
| 7 | 90 | 1086 | 1448 | 1810 | 1593 | 1231 | 1231 | 1376 | 1738 | 1882 | 2100 | 1448 | 2679 | 1738 | 1448 | 4416 |
| 8 | 90 | 1392 | 1856 | 2320 | 2042 | 1578 | 1578 | 1763 | 2227 | 2413 | 2691 | 1856 | 3434 | 2227 | 1856 | 5661 |
| 6 | 100 | 864 | 1152 | 1440 | 1267 | 979 | 979 | 1094 | 1382 | 1498 | 1670 | 1152 | 2131 | 1382 | 1152 | 3514 |
| 7 | 100 | 1188 | 1584 | 1980 | 1742 | 1346 | 1346 | 1505 | 1901 | 2059 | 2297 | 1584 | 2930 | 1901 | 1584 | 4831 |
| 8 | 100 | 1518 | 2024 | 2530 | 2226 | 1720 | 1720 | 1923 | 2429 | 2631 | 2935 | 2024 | 3744 | 2429 | 2024 | 6173 |
| 6 | 110 | 920 | 1226 | 1533 | 1349 | 1042 | 1042 | 1165 | 1471 | 1594 | 1778 | 1226 | 2268 | 1471 | 1226 | 3739 |
| 7 | 110 | 1274 | 1699 | 2124 | 1869 | 1444 | 1444 | 1614 | 2039 | 2209 | 2464 | 1699 | 3143 | 2039 | 1699 | 5182 |
| 8 | 110 | 1623 | 2164 | 2705 | 2380 | 1839 | 1839 | 2056 | 2597 | 2813 | 3138 | 2164 | 4003 | 2597 | 2164 | 6600 |
| 6 | 125 | 1045 | 1393 | 1741 | 1532 | 1184 | 1184 | 1323 | 1672 | 1811 | 2020 | 1393 | 2577 | 1672 | 1393 | 4249 |
| 7 | 125 | 1448 | 1931 | 2414 | 2124 | 1641 | 1641 | 1834 | 2317 | 2510 | 2800 | 1931 | 3572 | 2317 | 1931 | 5890 |
| 8 | 125 | 1844 | 2459 | 3074 | 2705 | 2090 | 2090 | 2336 | 2951 | 3197 | 3566 | 2459 | 4549 | 2951 | 2459 | 7500 |

Thin Paint or Rusted Thin Paint

Hard Coating

High Profile Range

SSPC-SP 10

Tables 3123 CC

| Operating Conditions | | Consumption Rate lbs/hr of Blasting | | | | | | | | | | | | | | |
|----------------------|----------------|-------------------------------------|--------|------|-----------------------------|------|--------|------|--------------------------------|------------|--------|--------|--------------|---------|-------|------|
| | | Typical Mineral Abrasive | | | Refinery & By-Product Grits | | | | Natural or Mined Grits & Sands | | | | Manufactured | | | |
| Nozzle Size | Pressure (psi) | -25% | Median | +25% | Copper | Coal | Nickel | Iron | Olivine | Staurolite | Garnet | Silica | Zircon | Alumina | Glass | Iron |
| 6 | 90 | 789 | 1052 | 1315 | 1157 | 894 | 894 | 999 | 1262 | 1368 | 1525 | 1052 | 1946 | 1262 | 1052 | 3209 |
| 7 | 90 | 1086 | 1448 | 1810 | 1593 | 1231 | 1231 | 1376 | 1738 | 1882 | 2100 | 1448 | 2679 | 1738 | 1448 | 4416 |
| 8 | 90 | 1392 | 1856 | 2320 | 2042 | 1578 | 1578 | 1763 | 2227 | 2413 | 2691 | 1856 | 3434 | 2227 | 1856 | 5661 |
| 6 | 100 | 864 | 1152 | 1440 | 1267 | 979 | 979 | 1094 | 1382 | 1498 | 1670 | 1152 | 2131 | 1382 | 1152 | 3514 |
| 7 | 100 | 1188 | 1584 | 1980 | 1742 | 1346 | 1346 | 1505 | 1901 | 2059 | 2297 | 1584 | 2930 | 1901 | 1584 | 4831 |
| 8 | 100 | 1518 | 2024 | 2530 | 2226 | 1720 | 1720 | 1923 | 2429 | 2631 | 2935 | 2024 | 3744 | 2429 | 2024 | 6173 |
| 6 | 110 | 920 | 1226 | 1533 | 1349 | 1042 | 1042 | 1165 | 1471 | 1594 | 1778 | 1226 | 2268 | 1471 | 1226 | 3739 |
| 7 | 110 | 1274 | 1699 | 2124 | 1869 | 1444 | 1444 | 1614 | 2039 | 2209 | 2464 | 1699 | 3143 | 2039 | 1699 | 5182 |
| 8 | 110 | 1623 | 2164 | 2705 | 2380 | 1839 | 1839 | 2056 | 2597 | 2813 | 3138 | 2164 | 4003 | 2597 | 2164 | 6600 |
| 6 | 125 | 1045 | 1393 | 1741 | 1532 | 1184 | 1184 | 1323 | 1672 | 1811 | 2020 | 1393 | 2577 | 1672 | 1393 | 4249 |
| 7 | 125 | 1448 | 1931 | 2414 | 2124 | 1641 | 1641 | 1834 | 2317 | 2510 | 2800 | 1931 | 3572 | 2317 | 1931 | 5890 |
| 8 | 125 | 1844 | 2459 | 3074 | 2705 | 2090 | 2090 | 2336 | 2951 | 3197 | 3566 | 2459 | 4549 | 2951 | 2459 | 7500 |

Thin Paint or Rusted Thin Paint

Hard Coating

Low Profile Range

SSPC-SP 6

Tables 3131 CC

| Operating Conditions | | Consumption Rate lbs/hr of Blasting | | | | | | | | | | | | | | |
|----------------------|----------------|-------------------------------------|--------|------|-----------------------------|------|--------|------|--------------------------------|------------|--------|--------|--------------|---------|-------|------|
| | | Typical Mineral Abrasive | | | Refinery & By-Product Grits | | | | Natural or Mined Grits & Sands | | | | Manufactured | | | |
| Nozzle Size | Pressure (psi) | -25% | Median | +25% | Copper | Coal | Nickel | Iron | Olivine | Staurolite | Garnet | Silica | Zircon | Alumina | Glass | |
| 6 | 90 | 789 | 1052 | 1315 | 1157 | 894 | 894 | 999 | 1262 | 1368 | 1525 | 1052 | 1946 | 1262 | 1052 | 3209 |
| 7 | 90 | 1086 | 1448 | 1810 | 1593 | 1231 | 1231 | 1376 | 1738 | 1882 | 2100 | 1448 | 2679 | 1738 | 1448 | 4416 |
| 8 | 90 | 1392 | 1856 | 2320 | 2042 | 1578 | 1578 | 1763 | 2227 | 2413 | 2691 | 1856 | 3434 | 2227 | 1856 | 5661 |
| 6 | 100 | 864 | 1152 | 1440 | 1267 | 979 | 979 | 1094 | 1382 | 1498 | 1670 | 1152 | 2131 | 1382 | 1152 | 3514 |
| 7 | 100 | 1188 | 1584 | 1980 | 1742 | 1346 | 1346 | 1505 | 1901 | 2059 | 2297 | 1584 | 2930 | 1901 | 1584 | 4831 |
| 8 | 100 | 1518 | 2024 | 2530 | 2226 | 1720 | 1720 | 1923 | 2429 | 2631 | 2935 | 2024 | 3744 | 2429 | 2024 | 6173 |
| 6 | 110 | 920 | 1226 | 1533 | 1349 | 1042 | 1042 | 1165 | 1471 | 1594 | 1778 | 1226 | 2268 | 1471 | 1226 | 3739 |
| 7 | 110 | 1274 | 1699 | 2124 | 1869 | 1444 | 1444 | 1614 | 2039 | 2209 | 2464 | 1699 | 3143 | 2039 | 1699 | 5182 |
| 8 | 110 | 1623 | 2164 | 2705 | 2380 | 1839 | 1839 | 2056 | 2597 | 2813 | 3138 | 2164 | 4003 | 2597 | 2164 | 6600 |
| 6 | 125 | 1045 | 1393 | 1741 | 1532 | 1184 | 1184 | 1323 | 1672 | 1811 | 2020 | 1393 | 2577 | 1672 | 1393 | 4249 |
| 7 | 125 | 1448 | 1931 | 2414 | 2124 | 1641 | 1641 | 1834 | 2317 | 2510 | 2800 | 1931 | 3572 | 2317 | 1931 | 5890 |
| 8 | 125 | 1844 | 2459 | 3074 | 2705 | 2090 | 2090 | 2336 | 2951 | 3197 | 3566 | 2459 | 4549 | 2951 | 2459 | 7500 |

Thin Paint or Rusted Thin Paint

Hard Coating

Medium Profile Range

SSPC-SP 6

Tables 3132 CC

| Operating Conditions | | Consumption Rate lbs/hr of Blasting | | | | | | | | | | | | | | |
|----------------------|----------------|-------------------------------------|--------|------|-----------------------------|------|--------|------|--------------------------------|------------|--------|--------|--------------|---------|-------|------|
| | | Typical Mineral Abrasive | | | Refinery & By-Product Grits | | | | Natural or Mined Grits & Sands | | | | Manufactured | | | |
| Nozzle Size | Pressure (psi) | -25% | Median | +25% | Copper | Coal | Nickel | Iron | Olivine | Staurolite | Garnet | Silica | Zircon | Alumina | Glass | Iron |
| 6 | 90 | 789 | 1052 | 1315 | 1157 | 894 | 894 | 999 | 1262 | 1368 | 1525 | 1052 | 1946 | 1262 | 1052 | 3209 |
| 7 | 90 | 1086 | 1448 | 1810 | 1593 | 1231 | 1231 | 1376 | 1738 | 1882 | 2100 | 1448 | 2679 | 1738 | 1448 | 4416 |
| 8 | 90 | 1392 | 1856 | 2320 | 2042 | 1578 | 1578 | 1763 | 2227 | 2413 | 2691 | 1856 | 3434 | 2227 | 1856 | 5661 |
| 6 | 100 | 864 | 1152 | 1440 | 1267 | 979 | 979 | 1094 | 1382 | 1498 | 1670 | 1152 | 2131 | 1382 | 1152 | 3514 |
| 7 | 100 | 1188 | 1584 | 1980 | 1742 | 1346 | 1346 | 1505 | 1901 | 2059 | 2297 | 1584 | 2930 | 1901 | 1584 | 4831 |
| 8 | 100 | 1518 | 2024 | 2530 | 2226 | 1720 | 1720 | 1923 | 2429 | 2631 | 2935 | 2024 | 3744 | 2429 | 2024 | 6173 |
| 6 | 110 | 920 | 1226 | 1533 | 1349 | 1042 | 1042 | 1165 | 1471 | 1594 | 1778 | 1226 | 2268 | 1471 | 1226 | 3739 |
| 7 | 110 | 1274 | 1699 | 2124 | 1869 | 1444 | 1444 | 1614 | 2039 | 2209 | 2464 | 1699 | 3143 | 2039 | 1699 | 5182 |
| 8 | 110 | 1623 | 2164 | 2705 | 2380 | 1839 | 1839 | 2056 | 2597 | 2813 | 3138 | 2164 | 4003 | 2597 | 2164 | 6600 |
| 6 | 125 | 1045 | 1393 | 1741 | 1532 | 1184 | 1184 | 1323 | 1672 | 1811 | 2020 | 1393 | 2577 | 1672 | 1393 | 4249 |
| 7 | 125 | 1448 | 1931 | 2414 | 2124 | 1641 | 1641 | 1834 | 2317 | 2510 | 2800 | 1931 | 3572 | 2317 | 1931 | 5890 |
| 8 | 125 | 1844 | 2459 | 3074 | 2705 | 2090 | 2090 | 2336 | 2951 | 3197 | 3566 | 2459 | 4549 | 2951 | 2459 | 7500 |

Thin Paint or Rusted Thin Paint

Hard Coating

High Profile Range

SSPC-SP 6

Tables 3133 CC

| Operating Conditions | | Consumption Rate lbs/hr of Blasting | | | | | | | | | | | | | | |
|----------------------|----------------|-------------------------------------|--------|------|-----------------------------|------|--------|------|--------------------------------|------------|--------|--------|--------------|---------|-------|------|
| | | Typical Mineral Abrasive | | | Refinery & By-Product Grits | | | | Natural or Mined Grits & Sands | | | | Manufactured | | | |
| Nozzle Size | Pressure (psi) | -25% | Median | +25% | Copper | Coal | Nickel | Iron | Olivine | Staurolite | Garnet | Silica | Zircon | Alumina | Glass | Iron |
| 6 | 90 | 789 | 1052 | 1315 | 1157 | 894 | 894 | 999 | 1262 | 1368 | 1525 | 1052 | 1946 | 1262 | 1052 | 3209 |
| 7 | 90 | 1086 | 1448 | 1810 | 1593 | 1231 | 1231 | 1376 | 1738 | 1882 | 2100 | 1448 | 2679 | 1738 | 1448 | 4416 |
| 8 | 90 | 1392 | 1856 | 2320 | 2042 | 1578 | 1578 | 1763 | 2227 | 2413 | 2691 | 1856 | 3434 | 2227 | 1856 | 5661 |
| 6 | 100 | 864 | 1152 | 1440 | 1267 | 979 | 979 | 1094 | 1382 | 1498 | 1670 | 1152 | 2131 | 1382 | 1152 | 3514 |
| 7 | 100 | 1188 | 1584 | 1980 | 1742 | 1346 | 1346 | 1505 | 1901 | 2059 | 2297 | 1584 | 2930 | 1901 | 1584 | 4831 |
| 8 | 100 | 1518 | 2024 | 2530 | 2226 | 1720 | 1720 | 1923 | 2429 | 2631 | 2935 | 2024 | 3744 | 2429 | 2024 | 6173 |
| 6 | 110 | 920 | 1226 | 1533 | 1349 | 1042 | 1042 | 1165 | 1471 | 1594 | 1778 | 1226 | 2268 | 1471 | 1226 | 3739 |
| 7 | 110 | 1274 | 1699 | 2124 | 1869 | 1444 | 1444 | 1614 | 2039 | 2209 | 2464 | 1699 | 3143 | 2039 | 1699 | 5182 |
| 8 | 110 | 1623 | 2164 | 2705 | 2380 | 1839 | 1839 | 2056 | 2597 | 2813 | 3138 | 2164 | 4003 | 2597 | 2164 | 6600 |
| 6 | 125 | 1045 | 1393 | 1741 | 1532 | 1184 | 1184 | 1323 | 1672 | 1811 | 2020 | 1393 | 2577 | 1672 | 1393 | 4249 |
| 7 | 125 | 1448 | 1931 | 2414 | 2124 | 1641 | 1641 | 1834 | 2317 | 2510 | 2800 | 1931 | 3572 | 2317 | 1931 | 5890 |
| 8 | 125 | 1844 | 2459 | 3074 | 2705 | 2090 | 2090 | 2336 | 2951 | 3197 | 3566 | 2459 | 4549 | 2951 | 2459 | 7500 |

Thin Paint or Rusted Thin Paint

Hard Coating

Low Profile Range

SSPC-SP 7

Tables 3141 CC

| Operating Conditions | | Consumption Rate lbs/hr of Blasting | | | | | | | | | | | | | | |
|----------------------|----------------|-------------------------------------|--------|------|-----------------------------|------|--------|------|--------------------------------|------------|--------|--------|--------------|---------|-------|------|
| | | Typical Mineral Abrasive | | | Refinery & By-Product Grits | | | | Natural or Mined Grits & Sands | | | | Manufactured | | | |
| Nozzle Size | Pressure (psi) | -25% | Median | +25% | Copper | Coal | Nickel | Iron | Olivine | Staurolite | Garnet | Silica | Zircon | Alumina | Glass | Iron |
| 6 | 90 | 789 | 1052 | 1315 | 1157 | 894 | 894 | 999 | 1262 | 1368 | 1525 | 1052 | 1946 | 1262 | 1052 | 3209 |
| 7 | 90 | 1086 | 1448 | 1810 | 1593 | 1231 | 1231 | 1376 | 1738 | 1882 | 2100 | 1448 | 2679 | 1738 | 1448 | 4416 |
| 8 | 90 | 1392 | 1856 | 2320 | 2042 | 1578 | 1578 | 1763 | 2227 | 2413 | 2691 | 1856 | 3434 | 2227 | 1856 | 5661 |
| 6 | 100 | 864 | 1152 | 1440 | 1267 | 979 | 979 | 1094 | 1382 | 1498 | 1670 | 1152 | 2131 | 1382 | 1152 | 3514 |
| 7 | 100 | 1188 | 1584 | 1980 | 1742 | 1346 | 1346 | 1505 | 1901 | 2059 | 2297 | 1584 | 2930 | 1901 | 1584 | 4831 |
| 8 | 100 | 1518 | 2024 | 2530 | 2226 | 1720 | 1720 | 1923 | 2429 | 2631 | 2935 | 2024 | 3744 | 2429 | 2024 | 6173 |
| 6 | 110 | 920 | 1226 | 1533 | 1349 | 1042 | 1042 | 1165 | 1471 | 1594 | 1778 | 1226 | 2268 | 1471 | 1226 | 3739 |
| 7 | 110 | 1274 | 1699 | 2124 | 1869 | 1444 | 1444 | 1614 | 2039 | 2209 | 2464 | 1699 | 3143 | 2039 | 1699 | 5182 |
| 8 | 110 | 1623 | 2164 | 2705 | 2380 | 1839 | 1839 | 2056 | 2597 | 2813 | 3138 | 2164 | 4003 | 2597 | 2164 | 6600 |
| 6 | 125 | 1045 | 1393 | 1741 | 1532 | 1184 | 1184 | 1323 | 1672 | 1811 | 2020 | 1393 | 2577 | 1672 | 1393 | 4249 |
| 7 | 125 | 1448 | 1931 | 2414 | 2124 | 1641 | 1641 | 1834 | 2317 | 2510 | 2800 | 1931 | 3572 | 2317 | 1931 | 5890 |
| 8 | 125 | 1844 | 2459 | 3074 | 2705 | 2090 | 2090 | 2336 | 2951 | 3197 | 3566 | 2459 | 4549 | 2951 | 2459 | 7500 |

Thin Paint or Rusted Thin Paint

Soft Coating

Low Profile Range

SSPC-SP 5

Tables

3211

CC

| Operating Conditions | | Consumption Rate lbs/hr of Blasting | | | | | | | | | | | | | | |
|----------------------|----------------|-------------------------------------|--------|------|-----------------------------|------|--------|------|--------------------------------|------------|--------|--------|--------------|---------|-------|------|
| | | Typical Mineral Abrasive | | | Refinery & By-Product Grits | | | | Natural or Mined Grits & Sands | | | | Manufactured | | | |
| Nozzle Size | Pressure (psi) | -25% | Median | +25% | Copper | Coal | Nickel | Iron | Olivine | Staurolite | Garnet | Silica | Zircon | Alumina | Glass | |
| 6 | 90 | 789 | 1052 | 1315 | 1157 | 894 | 894 | 999 | 1262 | 1368 | 1525 | 1052 | 1946 | 1262 | 1052 | 3209 |
| 7 | 90 | 1086 | 1448 | 1810 | 1593 | 1231 | 1231 | 1376 | 1738 | 1882 | 2100 | 1448 | 2679 | 1738 | 1448 | 4416 |
| 8 | 90 | 1392 | 1856 | 2320 | 2042 | 1578 | 1578 | 1763 | 2227 | 2413 | 2691 | 1856 | 3434 | 2227 | 1856 | 5661 |
| 6 | 100 | 864 | 1152 | 1440 | 1267 | 979 | 979 | 1094 | 1382 | 1498 | 1670 | 1152 | 2131 | 1382 | 1152 | 3514 |
| 7 | 100 | 1188 | 1584 | 1980 | 1742 | 1346 | 1346 | 1505 | 1901 | 2059 | 2297 | 1584 | 2930 | 1901 | 1584 | 4831 |
| 8 | 100 | 1518 | 2024 | 2530 | 2226 | 1720 | 1720 | 1923 | 2429 | 2631 | 2935 | 2024 | 3744 | 2429 | 2024 | 6173 |
| 6 | 110 | 920 | 1226 | 1533 | 1349 | 1042 | 1042 | 1165 | 1471 | 1594 | 1778 | 1226 | 2268 | 1471 | 1226 | 3739 |
| 7 | 110 | 1274 | 1699 | 2124 | 1869 | 1444 | 1444 | 1614 | 2039 | 2209 | 2464 | 1699 | 3143 | 2039 | 1699 | 5182 |
| 8 | 110 | 1623 | 2164 | 2705 | 2380 | 1839 | 1839 | 2056 | 2597 | 2813 | 3138 | 2164 | 4003 | 2597 | 2164 | 6600 |
| 6 | 125 | 1045 | 1393 | 1741 | 1532 | 1184 | 1184 | 1323 | 1672 | 1811 | 2020 | 1393 | 2577 | 1672 | 1393 | 4249 |
| 7 | 125 | 1448 | 1931 | 2414 | 2124 | 1641 | 1641 | 1834 | 2317 | 2510 | 2800 | 1931 | 3572 | 2317 | 1931 | 5890 |
| 8 | 125 | 1844 | 2459 | 3074 | 2705 | 2090 | 2090 | 2336 | 2951 | 3197 | 3566 | 2459 | 4549 | 2951 | 2459 | 7500 |

Thin Paint or Rusted Thin Paint

Soft Coating

Medium Profile Range

SSPC-SP 5

Tables 3212 C C

| Operating Conditions | | Consumption Rate lbs/hr of Blasting | | | | | | | | | | | | | | |
|----------------------|----------------|-------------------------------------|--------|------|-----------------------------|------|--------|------|--------------------------------|------------|--------|--------|--------------|---------|-------|------|
| | | Typical Mineral Abrasive | | | Refinery & By-Product Grits | | | | Natural or Mined Grits & Sands | | | | Manufactured | | | |
| Nozzle Size | Pressure (psi) | -25% | Median | +25% | Copper | Coal | Nickel | Iron | Olivine | Staurolite | Garnet | Silica | Zircon | Alumina | Glass | Iron |
| 6 | 90 | 789 | 1052 | 1315 | 1157 | 894 | 894 | 999 | 1262 | 1368 | 1525 | 1052 | 1946 | 1262 | 1052 | 3209 |
| 7 | 90 | 1086 | 1448 | 1810 | 1593 | 1231 | 1231 | 1376 | 1738 | 1882 | 2100 | 1448 | 2679 | 1738 | 1448 | 4416 |
| 8 | 90 | 1392 | 1856 | 2320 | 2042 | 1578 | 1578 | 1763 | 2227 | 2413 | 2691 | 1856 | 3434 | 2227 | 1856 | 5661 |
| 6 | 100 | 864 | 1152 | 1440 | 1267 | 979 | 979 | 1094 | 1382 | 1498 | 1670 | 1152 | 2131 | 1382 | 1152 | 3514 |
| 7 | 100 | 1188 | 1584 | 1980 | 1742 | 1346 | 1346 | 1505 | 1901 | 2059 | 2297 | 1584 | 2930 | 1901 | 1584 | 4831 |
| 8 | 100 | 1518 | 2024 | 2530 | 2226 | 1720 | 1720 | 1923 | 2429 | 2631 | 2935 | 2024 | 3744 | 2429 | 2024 | 6173 |
| 6 | 110 | 920 | 1226 | 1533 | 1349 | 1042 | 1042 | 1165 | 1471 | 1594 | 1778 | 1226 | 2268 | 1471 | 1226 | 3739 |
| 7 | 110 | 1274 | 1699 | 2124 | 1869 | 1444 | 1444 | 1614 | 2039 | 2209 | 2464 | 1699 | 3143 | 2039 | 1699 | 5182 |
| 8 | 110 | 1623 | 2164 | 2705 | 2380 | 1839 | 1839 | 2056 | 2597 | 2813 | 3138 | 2164 | 4003 | 2597 | 2164 | 6600 |
| 6 | 125 | 1045 | 1393 | 1741 | 1532 | 1184 | 1184 | 1323 | 1672 | 1811 | 2020 | 1393 | 2577 | 1672 | 1393 | 4249 |
| 7 | 125 | 1448 | 1931 | 2414 | 2124 | 1641 | 1641 | 1834 | 2317 | 2510 | 2800 | 1931 | 3572 | 2317 | 1931 | 5890 |
| 8 | 125 | 1844 | 2459 | 3074 | 2705 | 2090 | 2090 | 2336 | 2951 | 3197 | 3566 | 2459 | 4549 | 2951 | 2459 | 7500 |

Thin Paint or Rusted Thin Paint

Soft Coating

High Profile Range

SSPC-SP 5

Tables 3213 CC

| Operating Conditions | | Consumption Rate lbs/hr of Blasting | | | | | | | | | | | | | | |
|----------------------|----------------|-------------------------------------|--------|------|-----------------------------|------|--------|------|--------------------------------|------------|--------|--------|--------------|---------|-------|------------|
| | | Typical Mineral Abrasive | | | Refinery & By-Product Grits | | | | Natural or Mined Grits & Sands | | | | Manufactured | | | |
| Nozzle Size | Pressure (psi) | -25% | Median | +25% | Copper | Coal | Nickel | Iron | Olivine | Staurolite | Garnet | Silica | Zircon | Alumina | Glass | Steel Iron |
| 6 | 90 | 789 | 1052 | 1315 | 1157 | 894 | 894 | 999 | 1262 | 1368 | 1525 | 1052 | 1946 | 1262 | 1052 | 3209 |
| 7 | 90 | 1086 | 1448 | 1810 | 1593 | 1231 | 1231 | 1376 | 1738 | 1882 | 2100 | 1448 | 2679 | 1738 | 1448 | 4416 |
| 8 | 90 | 1392 | 1856 | 2320 | 2042 | 1578 | 1578 | 1763 | 2227 | 2413 | 2691 | 1856 | 3434 | 2227 | 1856 | 5661 |
| 6 | 100 | 864 | 1152 | 1440 | 1267 | 979 | 979 | 1094 | 1382 | 1498 | 1670 | 1152 | 2131 | 1382 | 1152 | 3514 |
| 7 | 100 | 1188 | 1584 | 1980 | 1742 | 1346 | 1346 | 1505 | 1901 | 2059 | 2297 | 1584 | 2930 | 1901 | 1584 | 4831 |
| 8 | 100 | 1518 | 2024 | 2530 | 2226 | 1720 | 1720 | 1923 | 2429 | 2631 | 2935 | 2024 | 3744 | 2429 | 2024 | 6173 |
| 6 | 110 | 920 | 1226 | 1533 | 1349 | 1042 | 1042 | 1165 | 1471 | 1594 | 1778 | 1226 | 2268 | 1471 | 1226 | 3739 |
| 7 | 110 | 1274 | 1699 | 2124 | 1869 | 1444 | 1444 | 1614 | 2039 | 2209 | 2464 | 1699 | 3143 | 2039 | 1699 | 5182 |
| 8 | 110 | 1623 | 2164 | 2705 | 2380 | 1839 | 1839 | 2056 | 2597 | 2813 | 3138 | 2164 | 4003 | 2597 | 2164 | 6600 |
| 6 | 125 | 1045 | 1393 | 1741 | 1532 | 1184 | 1184 | 1323 | 1672 | 1811 | 2020 | 1393 | 2577 | 1672 | 1393 | 4249 |
| 7 | 125 | 1448 | 1931 | 2414 | 2124 | 1641 | 1641 | 1834 | 2317 | 2510 | 2800 | 1931 | 3572 | 2317 | 1931 | 5890 |
| 8 | 125 | 1844 | 2459 | 3074 | 2705 | 2090 | 2090 | 2336 | 2951 | 3197 | 3566 | 2459 | 4549 | 2951 | 2459 | 7500 |

Thin Paint or Rusted Thin Paint

Soft Coating

Low Profile Range

SSPC-SP 10

Tables

3221

CC

| Operating Conditions | | Consumption Rate lbs/hr of Blasting | | | | | | | | | | | | | | |
|----------------------|----------------|-------------------------------------|--------|------|-----------------------------|------|--------|------|--------------------------------|------------|--------|--------|--------------|---------|-------|------|
| | | Typical Mineral Abrasive | | | Refinery & By-Product Grits | | | | Natural or Mined Grits & Sands | | | | Manufactured | | | |
| Nozzle Size | Pressure (psi) | -25% | Median | +25% | Copper | Coal | Nickel | Iron | Olivine | Staurolite | Garnet | Silica | Zircon | Alumina | Glass | Iron |
| 6 | 90 | 789 | 1052 | 1315 | 1157 | 894 | 894 | 999 | 1262 | 1368 | 1525 | 1052 | 1946 | 1262 | 1052 | 3209 |
| 7 | 90 | 1086 | 1448 | 1810 | 1593 | 1231 | 1231 | 1376 | 1738 | 1882 | 2100 | 1448 | 2679 | 1738 | 1448 | 4416 |
| 8 | 90 | 1392 | 1856 | 2320 | 2042 | 1578 | 1578 | 1763 | 2227 | 2413 | 2691 | 1856 | 3434 | 2227 | 1856 | 5661 |
| 6 | 100 | 864 | 1152 | 1440 | 1267 | 979 | 979 | 1094 | 1382 | 1498 | 1670 | 1152 | 2131 | 1382 | 1152 | 3514 |
| 7 | 100 | 1188 | 1584 | 1980 | 1742 | 1346 | 1346 | 1505 | 1901 | 2059 | 2297 | 1584 | 2930 | 1901 | 1584 | 4831 |
| 8 | 100 | 1518 | 2024 | 2530 | 2226 | 1720 | 1720 | 1923 | 2429 | 2631 | 2935 | 2024 | 3744 | 2429 | 2024 | 6173 |
| 6 | 110 | 920 | 1226 | 1533 | 1349 | 1042 | 1042 | 1165 | 1471 | 1594 | 1778 | 1226 | 2268 | 1471 | 1226 | 3739 |
| 7 | 110 | 1274 | 1699 | 2124 | 1869 | 1444 | 1444 | 1614 | 2039 | 2209 | 2464 | 1699 | 3143 | 2039 | 1699 | 5182 |
| 8 | 110 | 1623 | 2164 | 2705 | 2380 | 1839 | 1839 | 2056 | 2597 | 2813 | 3138 | 2164 | 4003 | 2597 | 2164 | 6600 |
| 6 | 125 | 1045 | 1393 | 1741 | 1532 | 1184 | 1184 | 1323 | 1672 | 1811 | 2020 | 1393 | 2577 | 1672 | 1393 | 4249 |
| 7 | 125 | 1448 | 1931 | 2414 | 2124 | 1641 | 1641 | 1834 | 2317 | 2510 | 2800 | 1931 | 3572 | 2317 | 1931 | 5890 |
| 8 | 125 | 1844 | 2459 | 3074 | 2705 | 2090 | 2090 | 2336 | 2951 | 3197 | 3566 | 2459 | 4549 | 2951 | 2459 | 7500 |

Thin Paint or Rusted Thin Paint

Soft Coating

Medium Profile Range

SSPC-SP 10

Tables 3222 C C

| Operating Conditions | | Consumption Rate lbs/hr of Blasting | | | | | | | | | | | | | | |
|----------------------|----------------|-------------------------------------|--------|------|-----------------------------|------|--------|------|--------------------------------|------------|--------|--------|--------------|---------|-------|------|
| | | Typical Mineral Abrasive | | | Refinery & By-Product Grits | | | | Natural or Mined Grits & Sands | | | | Manufactured | | | |
| Nozzle Size | Pressure (psi) | -25% | Median | +25% | Copper | Coal | Nickel | Iron | Olivine | Staurolite | Garnet | Silica | Zircon | Alumina | Glass | Iron |
| 6 | 90 | 789 | 1052 | 1315 | 1157 | 894 | 894 | 999 | 1262 | 1368 | 1525 | 1052 | 1946 | 1262 | 1052 | 3209 |
| 7 | 90 | 1086 | 1448 | 1810 | 1593 | 1231 | 1231 | 1376 | 1738 | 1882 | 2100 | 1448 | 2679 | 1738 | 1448 | 4416 |
| 8 | 90 | 1392 | 1856 | 2320 | 2042 | 1578 | 1578 | 1763 | 2227 | 2413 | 2691 | 1856 | 3434 | 2227 | 1856 | 5661 |
| 6 | 100 | 864 | 1152 | 1440 | 1267 | 979 | 979 | 1094 | 1382 | 1498 | 1670 | 1152 | 2131 | 1382 | 1152 | 3514 |
| 7 | 100 | 1188 | 1584 | 1980 | 1742 | 1346 | 1346 | 1505 | 1901 | 2059 | 2297 | 1584 | 2930 | 1901 | 1584 | 4831 |
| 8 | 100 | 1518 | 2024 | 2530 | 2226 | 1720 | 1720 | 1923 | 2429 | 2631 | 2935 | 2024 | 3744 | 2429 | 2024 | 6173 |
| 6 | 110 | 920 | 1226 | 1533 | 1349 | 1042 | 1042 | 1165 | 1471 | 1594 | 1778 | 1226 | 2268 | 1471 | 1226 | 3739 |
| 7 | 110 | 1274 | 1699 | 2124 | 1869 | 1444 | 1444 | 1614 | 2039 | 2209 | 2464 | 1699 | 3143 | 2039 | 1699 | 5182 |
| 8 | 110 | 1623 | 2164 | 2705 | 2380 | 1839 | 1839 | 2056 | 2597 | 2813 | 3138 | 2164 | 4003 | 2597 | 2164 | 6600 |
| 6 | 125 | 1045 | 1393 | 1741 | 1532 | 1184 | 1184 | 1323 | 1672 | 1811 | 2020 | 1393 | 2577 | 1672 | 1393 | 4249 |
| 7 | 125 | 1448 | 1931 | 2414 | 2124 | 1641 | 1641 | 1834 | 2317 | 2510 | 2800 | 1931 | 3572 | 2317 | 1931 | 5890 |
| 8 | 125 | 1844 | 2459 | 3074 | 2705 | 2090 | 2090 | 2336 | 2951 | 3197 | 3566 | 2459 | 4549 | 2951 | 2459 | 7500 |

Thin Paint or Rusted Thin Paint

Soft Coating

High Profile Range

SSPC-SP 10

Tables 3223 CC

| Operating Conditions | | Consumption Rate lbs/hr of Blasting | | | | | | | | | | | | | | |
|----------------------|----------------|-------------------------------------|--------|------|-----------------------------|------|--------|------|--------------------------------|------------|--------|--------|--------------|---------|-------|------|
| | | Typical Mineral Abrasive | | | Refinery & By-Product Grits | | | | Natural or Mined Grits & Sands | | | | Manufactured | | | |
| Nozzle Size | Pressure (psi) | -25% | Median | +25% | Copper | Coal | Nickel | Iron | Olivine | Staurolite | Garnet | Silica | Zircon | Alumina | Glass | Iron |
| 6 | 90 | 789 | 1052 | 1315 | 1157 | 894 | 894 | 999 | 1262 | 1368 | 1525 | 1052 | 1946 | 1262 | 1052 | 3209 |
| 7 | 90 | 1086 | 1448 | 1810 | 1593 | 1231 | 1231 | 1376 | 1738 | 1882 | 2100 | 1448 | 2679 | 1738 | 1448 | 4416 |
| 8 | 90 | 1392 | 1856 | 2320 | 2042 | 1578 | 1578 | 1763 | 2227 | 2413 | 2691 | 1856 | 3434 | 2227 | 1856 | 5661 |
| 6 | 100 | 864 | 1152 | 1440 | 1267 | 979 | 979 | 1094 | 1382 | 1498 | 1670 | 1152 | 2131 | 1382 | 1152 | 3514 |
| 7 | 100 | 1188 | 1584 | 1980 | 1742 | 1346 | 1346 | 1505 | 1901 | 2059 | 2297 | 1584 | 2930 | 1901 | 1584 | 4831 |
| 8 | 100 | 1518 | 2024 | 2530 | 2226 | 1720 | 1720 | 1923 | 2429 | 2631 | 2935 | 2024 | 3744 | 2429 | 2024 | 6173 |
| 6 | 110 | 920 | 1226 | 1533 | 1349 | 1042 | 1042 | 1165 | 1471 | 1594 | 1778 | 1226 | 2268 | 1471 | 1226 | 3739 |
| 7 | 110 | 1274 | 1699 | 2124 | 1869 | 1444 | 1444 | 1614 | 2039 | 2209 | 2464 | 1699 | 3143 | 2039 | 1699 | 5182 |
| 8 | 110 | 1623 | 2164 | 2705 | 2380 | 1839 | 1839 | 2056 | 2597 | 2813 | 3138 | 2164 | 4003 | 2597 | 2164 | 6600 |
| 6 | 125 | 1045 | 1393 | 1741 | 1532 | 1184 | 1184 | 1323 | 1672 | 1811 | 2020 | 1393 | 2577 | 1672 | 1393 | 4249 |
| 7 | 125 | 1448 | 1931 | 2414 | 2124 | 1641 | 1641 | 1834 | 2317 | 2510 | 2800 | 1931 | 3572 | 2317 | 1931 | 5890 |
| 8 | 125 | 1844 | 2459 | 3074 | 2705 | 2090 | 2090 | 2336 | 2951 | 3197 | 3566 | 2459 | 4549 | 2951 | 2459 | 7500 |

Thin Paint or Rusted Thin Paint

Soft Coating

Low Profile Range

SSPC-SP 6

Tables

3231

CC

| Operating Conditions | | Consumption Rate lbs/hr of Blasting | | | | | | | | | | | | | | |
|----------------------|----------------|-------------------------------------|--------|------|-----------------------------|------|--------|------|--------------------------------|------------|--------|--------|--------------|---------|-------|------|
| | | Typical Mineral Abrasive | | | Refinery & By-Product Grits | | | | Natural or Mined Grits & Sands | | | | Manufactured | | | |
| Nozzle Size | Pressure (psi) | -25% | Median | +25% | Copper | Coal | Nickel | Iron | Olivine | Staurolite | Garnet | Silica | Zircon | Alumina | Glass | Iron |
| 6 | 90 | 789 | 1052 | 1315 | 1157 | 894 | 894 | 999 | 1262 | 1368 | 1525 | 1052 | 1946 | 1262 | 1052 | 3209 |
| 7 | 90 | 1086 | 1448 | 1810 | 1593 | 1231 | 1231 | 1376 | 1738 | 1882 | 2100 | 1448 | 2679 | 1738 | 1448 | 4416 |
| 8 | 90 | 1392 | 1856 | 2320 | 2042 | 1578 | 1578 | 1763 | 2227 | 2413 | 2691 | 1856 | 3434 | 2227 | 1856 | 5661 |
| 6 | 100 | 864 | 1152 | 1440 | 1267 | 979 | 979 | 1094 | 1382 | 1498 | 1670 | 1152 | 2131 | 1382 | 1152 | 3514 |
| 7 | 100 | 1188 | 1584 | 1980 | 1742 | 1346 | 1346 | 1505 | 1901 | 2059 | 2297 | 1584 | 2930 | 1901 | 1584 | 4831 |
| 8 | 100 | 1518 | 2024 | 2530 | 2226 | 1720 | 1720 | 1923 | 2429 | 2631 | 2935 | 2024 | 3744 | 2429 | 2024 | 6173 |
| 6 | 110 | 920 | 1226 | 1533 | 1349 | 1042 | 1042 | 1165 | 1471 | 1594 | 1778 | 1226 | 2268 | 1471 | 1226 | 3739 |
| 7 | 110 | 1274 | 1699 | 2124 | 1869 | 1444 | 1444 | 1614 | 2039 | 2209 | 2464 | 1699 | 3143 | 2039 | 1699 | 5182 |
| 8 | 110 | 1623 | 2164 | 2705 | 2380 | 1839 | 1839 | 2056 | 2597 | 2813 | 3138 | 2164 | 4003 | 2597 | 2164 | 6600 |
| 6 | 125 | 1045 | 1393 | 1741 | 1532 | 1184 | 1184 | 1323 | 1672 | 1811 | 2020 | 1393 | 2577 | 1672 | 1393 | 4249 |
| 7 | 125 | 1448 | 1931 | 2414 | 2124 | 1641 | 1641 | 1834 | 2317 | 2510 | 2800 | 1931 | 3572 | 2317 | 1931 | 5890 |
| 8 | 125 | 1844 | 2459 | 3074 | 2705 | 2090 | 2090 | 2336 | 2951 | 3197 | 3566 | 2459 | 4549 | 2951 | 2459 | 7500 |

Thin Paint or Rusted Thin Paint

Soft Coating

Medium Profile Range

SSPC-SP 6

Tables 3232 C C

| Operating Conditions | | Consumption Rate lbs/hr of Blasting | | | | | | | | | | | | | | |
|----------------------|----------------|-------------------------------------|--------|------|-----------------------------|------|--------|------|--------------------------------|------------|--------|--------|--------------|---------|-------|------|
| | | Typical Mineral Abrasive | | | Refinery & By-Product Grits | | | | Natural or Mined Grits & Sands | | | | Manufactured | | | |
| Nozzle Size | Pressure (psi) | -25% | Median | +25% | Copper | Coal | Nickel | Iron | Olivine | Staurolite | Garnet | Silica | Zircon | Alumina | Glass | Iron |
| 6 | 90 | 789 | 1052 | 1315 | 1157 | 894 | 894 | 999 | 1262 | 1368 | 1525 | 1052 | 1946 | 1262 | 1052 | 3209 |
| 7 | 90 | 1086 | 1448 | 1810 | 1593 | 1231 | 1231 | 1376 | 1738 | 1882 | 2100 | 1448 | 2679 | 1738 | 1448 | 4416 |
| 8 | 90 | 1392 | 1856 | 2320 | 2042 | 1578 | 1578 | 1763 | 2227 | 2413 | 2691 | 1856 | 3434 | 2227 | 1856 | 5661 |
| 6 | 100 | 864 | 1152 | 1440 | 1267 | 979 | 979 | 1094 | 1382 | 1498 | 1670 | 1152 | 2131 | 1382 | 1152 | 3514 |
| 7 | 100 | 1188 | 1584 | 1980 | 1742 | 1346 | 1346 | 1505 | 1901 | 2059 | 2297 | 1584 | 2930 | 1901 | 1584 | 4831 |
| 8 | 100 | 1518 | 2024 | 2530 | 2226 | 1720 | 1720 | 1923 | 2429 | 2631 | 2935 | 2024 | 3744 | 2429 | 2024 | 6173 |
| 6 | 110 | 920 | 1226 | 1533 | 1349 | 1042 | 1042 | 1165 | 1471 | 1594 | 1778 | 1226 | 2268 | 1471 | 1226 | 3739 |
| 7 | 110 | 1274 | 1699 | 2124 | 1869 | 1444 | 1444 | 1614 | 2039 | 2209 | 2464 | 1699 | 3143 | 2039 | 1699 | 5182 |
| 8 | 110 | 1623 | 2164 | 2705 | 2380 | 1839 | 1839 | 2056 | 2597 | 2813 | 3138 | 2164 | 4003 | 2597 | 2164 | 6600 |
| 6 | 125 | 1045 | 1393 | 1741 | 1532 | 1184 | 1184 | 1323 | 1672 | 1811 | 2020 | 1393 | 2577 | 1672 | 1393 | 4249 |
| 7 | 125 | 1448 | 1931 | 2414 | 2124 | 1641 | 1641 | 1834 | 2317 | 2510 | 2800 | 1931 | 3572 | 2317 | 1931 | 5890 |
| 8 | 125 | 1844 | 2459 | 3074 | 2705 | 2090 | 2090 | 2336 | 2951 | 3197 | 3566 | 2459 | 4549 | 2951 | 2459 | 7500 |

Thin Paint or Rusted Thin Paint

Soft Coating

High Profile Range

SSPC-SP 6

Tables 3233 CC

| Operating Conditions | | Consumption Rate lbs/hr of Blasting | | | | | | | | | | | | | | |
|----------------------|----------------|-------------------------------------|--------|------|-----------------------------|------|--------|------|--------------------------------|------------|--------|--------|--------------|---------|-------|------|
| | | Typical Mineral Abrasive | | | Refinery & By-Product Grits | | | | Natural or Mined Grits & Sands | | | | Manufactured | | | |
| Nozzle Size | Pressure (psi) | -25% | Median | +25% | Copper | Coal | Nickel | Iron | Olivine | Staurolite | Garnet | Silica | Zircon | Alumina | Glass | Iron |
| 6 | 90 | 789 | 1052 | 1315 | 1157 | 894 | 894 | 999 | 1262 | 1368 | 1525 | 1052 | 1946 | 1262 | 1052 | 3209 |
| 7 | 90 | 1086 | 1448 | 1810 | 1593 | 1231 | 1231 | 1376 | 1738 | 1882 | 2100 | 1448 | 2679 | 1738 | 1448 | 4416 |
| 8 | 90 | 1392 | 1856 | 2320 | 2042 | 1578 | 1578 | 1763 | 2227 | 2413 | 2691 | 1856 | 3434 | 2227 | 1856 | 5661 |
| 6 | 100 | 864 | 1152 | 1440 | 1267 | 979 | 979 | 1094 | 1382 | 1498 | 1670 | 1152 | 2131 | 1382 | 1152 | 3514 |
| 7 | 100 | 1188 | 1584 | 1980 | 1742 | 1346 | 1346 | 1505 | 1901 | 2059 | 2297 | 1584 | 2930 | 1901 | 1584 | 4831 |
| 8 | 100 | 1518 | 2024 | 2530 | 2226 | 1720 | 1720 | 1923 | 2429 | 2631 | 2935 | 2024 | 3744 | 2429 | 2024 | 6173 |
| 6 | 110 | 920 | 1226 | 1533 | 1349 | 1042 | 1042 | 1165 | 1471 | 1594 | 1778 | 1226 | 2268 | 1471 | 1226 | 3739 |
| 7 | 110 | 1274 | 1699 | 2124 | 1869 | 1444 | 1444 | 1614 | 2039 | 2209 | 2464 | 1699 | 3143 | 2039 | 1699 | 5182 |
| 8 | 110 | 1623 | 2164 | 2705 | 2380 | 1839 | 1839 | 2056 | 2597 | 2813 | 3138 | 2164 | 4003 | 2597 | 2164 | 6600 |
| 6 | 125 | 1045 | 1393 | 1741 | 1532 | 1184 | 1184 | 1323 | 1672 | 1811 | 2020 | 1393 | 2577 | 1672 | 1393 | 4249 |
| 7 | 125 | 1448 | 1931 | 2414 | 2124 | 1641 | 1641 | 1834 | 2317 | 2510 | 2800 | 1931 | 3572 | 2317 | 1931 | 5890 |
| 8 | 125 | 1844 | 2459 | 3074 | 2705 | 2090 | 2090 | 2336 | 2951 | 3197 | 3566 | 2459 | 4549 | 2951 | 2459 | 7500 |

Thin Paint or Rusted Thin Paint

Soft Coating

Low Profile Range

SSPC-SP 7

Tables 3241 CC

| Operating Conditions | | Consumption Rate lbs/hr of Blasting | | | | | | | | | | | | | | |
|----------------------|----------------|-------------------------------------|--------|------|-----------------------------|------|--------|------|--------------------------------|------------|--------|--------|--------------|---------|-------|------|
| | | Typical Mineral Abrasive | | | Refinery & By-Product Grits | | | | Natural or Mined Grits & Sands | | | | Manufactured | | | |
| Nozzle Size | Pressure (psi) | -25% | Median | +25% | Copper | Coal | Nickel | Iron | Olivine | Staurolite | Garnet | Silica | Zircon | Alumina | Glass | Iron |
| 6 | 90 | 789 | 1052 | 1315 | 1157 | 894 | 894 | 999 | 1262 | 1368 | 1525 | 1052 | 1946 | 1262 | 1052 | 3209 |
| 6 | 100 | 864 | 1152 | 1440 | 1267 | 979 | 979 | 1094 | 1382 | 1498 | 1670 | 1152 | 2131 | 1382 | 1152 | 3514 |
| 6 | 110 | 920 | 1226 | 1533 | 1349 | 1042 | 1042 | 1165 | 1471 | 1594 | 1778 | 1226 | 2268 | 1471 | 1226 | 3739 |
| 6 | 125 | 1045 | 1393 | 1741 | 1532 | 1184 | 1184 | 1323 | 1672 | 1811 | 2020 | 1393 | 2577 | 1672 | 1393 | 4249 |
| 7 | 90 | 1086 | 1448 | 1810 | 1593 | 1231 | 1231 | 1376 | 1738 | 1882 | 2100 | 1448 | 2679 | 1738 | 1448 | 4416 |
| 7 | 100 | 1188 | 1584 | 1980 | 1742 | 1346 | 1346 | 1505 | 1901 | 2059 | 2297 | 1584 | 2930 | 1901 | 1584 | 4831 |
| 7 | 110 | 1274 | 1699 | 2124 | 1869 | 1444 | 1444 | 1614 | 2039 | 2209 | 2464 | 1699 | 3143 | 2039 | 1699 | 5182 |
| 7 | 125 | 1448 | 1931 | 2414 | 2124 | 1641 | 1641 | 1834 | 2317 | 2510 | 2800 | 1931 | 3572 | 2317 | 1931 | 5890 |
| 8 | 90 | 1392 | 1856 | 2320 | 2042 | 1578 | 1578 | 1763 | 2227 | 2413 | 2691 | 1856 | 3434 | 2227 | 1856 | 5661 |
| 8 | 100 | 1518 | 2024 | 2530 | 2226 | 1720 | 1720 | 1923 | 2429 | 2631 | 2935 | 2024 | 3744 | 2429 | 2024 | 6173 |
| 8 | 110 | 1623 | 2164 | 2705 | 2380 | 1839 | 1839 | 2056 | 2597 | 2813 | 3138 | 2164 | 4003 | 2597 | 2164 | 6600 |
| 8 | 125 | 1844 | 2459 | 3074 | 2705 | 2090 | 2090 | 2336 | 2951 | 3197 | 3566 | 2459 | 4549 | 2951 | 2459 | 7500 |

Thick Paint, Heavy Millscale or Heavy Pitted Rust

Hard Coating

Low Profile Range

SSPC-SP 5

Tables 4111 CC

| Operating Conditions | | Consumption Rate lbs/hr of Blasting | | | | | | | | | | | | | | |
|----------------------|----------------|-------------------------------------|--------|------|-----------------------------|------|--------|------|--------------------------------|------------|--------|--------|--------------|---------|-------|------|
| | | Typical Mineral Abrasive | | | Refinery & By-Product Grits | | | | Natural or Mined Grits & Sands | | | | Manufactured | | | |
| Nozzle Size | Pressure (psi) | -25% | Median | +25% | Copper | Coal | Nickel | Iron | Olivine | Staurolite | Garnet | Silica | Zircon | Alumina | Glass | |
| 6 | 90 | 789 | 1052 | 1315 | 1157 | 894 | 894 | 999 | 1262 | 1368 | 1525 | 1052 | 1946 | 1262 | 1052 | 3209 |
| 6 | 100 | 864 | 1152 | 1440 | 1267 | 979 | 979 | 1094 | 1382 | 1498 | 1670 | 1152 | 2131 | 1382 | 1152 | 3514 |
| 6 | 110 | 920 | 1226 | 1533 | 1349 | 1042 | 1042 | 1165 | 1471 | 1594 | 1778 | 1226 | 2268 | 1471 | 1226 | 3739 |
| 6 | 125 | 1045 | 1393 | 1741 | 1532 | 1184 | 1184 | 1323 | 1672 | 1811 | 2020 | 1393 | 2577 | 1672 | 1393 | 4249 |
| 7 | 90 | 1086 | 1448 | 1810 | 1593 | 1231 | 1231 | 1376 | 1738 | 1882 | 2100 | 1448 | 2679 | 1738 | 1448 | 4416 |
| 7 | 100 | 1188 | 1584 | 1980 | 1742 | 1346 | 1346 | 1505 | 1901 | 2059 | 2297 | 1584 | 2930 | 1901 | 1584 | 4831 |
| 7 | 110 | 1274 | 1699 | 2124 | 1869 | 1444 | 1444 | 1614 | 2039 | 2209 | 2464 | 1699 | 3143 | 2039 | 1699 | 5182 |
| 7 | 125 | 1448 | 1931 | 2414 | 2124 | 1641 | 1641 | 1834 | 2317 | 2510 | 2800 | 1931 | 3572 | 2317 | 1931 | 5890 |
| 8 | 90 | 1392 | 1856 | 2320 | 2042 | 1578 | 1578 | 1763 | 2227 | 2413 | 2691 | 1856 | 3434 | 2227 | 1856 | 5661 |
| 8 | 100 | 1518 | 2024 | 2530 | 2226 | 1720 | 1720 | 1923 | 2429 | 2631 | 2935 | 2024 | 3744 | 2429 | 2024 | 6173 |
| 8 | 110 | 1623 | 2164 | 2705 | 2380 | 1839 | 1839 | 2056 | 2597 | 2813 | 3138 | 2164 | 4003 | 2597 | 2164 | 6600 |
| 8 | 125 | 1844 | 2459 | 3074 | 2705 | 2090 | 2090 | 2336 | 2951 | 3197 | 3566 | 2459 | 4549 | 2951 | 2459 | 7500 |

Thick Paint, Heavy Millscale or Heavy Pitted Rust

Hard Coating

Medium Profile Range

SSPC-SP 5

Tables 4112 CC

| Operating Conditions | | Consumption Rate lbs/hr of Blasting | | | | | | | | | | | | | | |
|----------------------|----------------|-------------------------------------|--------|------|-----------------------------|------|--------|------|--------------------------------|------------|--------|--------|--------------|---------|-------|------|
| | | Typical Mineral Abrasive | | | Refinery & By-Product Grits | | | | Natural or Mined Grits & Sands | | | | Manufactured | | | |
| Nozzle Size | Pressure (psi) | -25% | Median | +25% | Copper | Coal | Nickel | Iron | Olivine | Staurolite | Garnet | Silica | Zircon | Alumina | Glass | |
| 6 | 90 | 789 | 1052 | 1315 | 1157 | 894 | 894 | 999 | 1262 | 1368 | 1525 | 1052 | 1946 | 1262 | 1052 | 3209 |
| 6 | 100 | 864 | 1152 | 1440 | 1267 | 979 | 979 | 1094 | 1382 | 1498 | 1670 | 1152 | 2131 | 1382 | 1152 | 3514 |
| 6 | 110 | 920 | 1226 | 1533 | 1349 | 1042 | 1042 | 1165 | 1471 | 1594 | 1778 | 1226 | 2268 | 1471 | 1226 | 3739 |
| 6 | 125 | 1045 | 1393 | 1741 | 1532 | 1184 | 1184 | 1323 | 1672 | 1811 | 2020 | 1393 | 2577 | 1672 | 1393 | 4249 |
| 7 | 90 | 1086 | 1448 | 1810 | 1593 | 1231 | 1231 | 1376 | 1738 | 1882 | 2100 | 1448 | 2679 | 1738 | 1448 | 4416 |
| 7 | 100 | 1188 | 1584 | 1980 | 1742 | 1346 | 1346 | 1505 | 1901 | 2059 | 2297 | 1584 | 2930 | 1901 | 1584 | 4831 |
| 7 | 110 | 1274 | 1699 | 2124 | 1869 | 1444 | 1444 | 1614 | 2039 | 2209 | 2464 | 1699 | 3143 | 2039 | 1699 | 5182 |
| 7 | 125 | 1448 | 1931 | 2414 | 2124 | 1641 | 1641 | 1834 | 2317 | 2510 | 2800 | 1931 | 3572 | 2317 | 1931 | 5890 |
| 8 | 90 | 1392 | 1856 | 2320 | 2042 | 1578 | 1578 | 1763 | 2227 | 2413 | 2691 | 1856 | 3434 | 2227 | 1856 | 5661 |
| 8 | 100 | 1518 | 2024 | 2530 | 2226 | 1720 | 1720 | 1923 | 2429 | 2631 | 2935 | 2024 | 3744 | 2429 | 2024 | 6173 |
| 8 | 110 | 1623 | 2164 | 2705 | 2380 | 1839 | 1839 | 2056 | 2597 | 2813 | 3138 | 2164 | 4003 | 2597 | 2164 | 6600 |
| 8 | 125 | 1844 | 2459 | 3074 | 2705 | 2090 | 2090 | 2336 | 2951 | 3197 | 3566 | 2459 | 4549 | 2951 | 2459 | 7500 |

Thick Paint, Heavy Millscale or Heavy Pitted Rust

Hard Coating

High Profile Range

SSPC-SP 5

Tables 4113 CC

| Operating Conditions | | Consumption Rate lbs/hr of Blasting | | | | | | | | | | | | | | |
|----------------------|----------------|-------------------------------------|--------|------|-----------------------------|------|--------|------|--------------------------------|------------|--------|--------|--------------|---------|-------|------|
| | | Typical Mineral Abrasive | | | Refinery & By-Product Grits | | | | Natural or Mined Grits & Sands | | | | Manufactured | | | |
| Nozzle Size | Pressure (psi) | -25% | Median | +25% | Copper | Coal | Nickel | Iron | Olivine | Staurolite | Garnet | Silica | Zircon | Alumina | Glass | Iron |
| 6 | 90 | 789 | 1052 | 1315 | 1157 | 894 | 894 | 999 | 1262 | 1368 | 1525 | 1052 | 1946 | 1262 | 1052 | 3209 |
| 6 | 100 | 864 | 1152 | 1440 | 1267 | 979 | 979 | 1094 | 1382 | 1498 | 1670 | 1152 | 2131 | 1382 | 1152 | 3514 |
| 6 | 110 | 920 | 1226 | 1533 | 1349 | 1042 | 1042 | 1165 | 1471 | 1594 | 1778 | 1226 | 2268 | 1471 | 1226 | 3739 |
| 6 | 125 | 1045 | 1393 | 1741 | 1532 | 1184 | 1184 | 1323 | 1672 | 1811 | 2020 | 1393 | 2577 | 1672 | 1393 | 4249 |
| 7 | 90 | 1086 | 1448 | 1810 | 1593 | 1231 | 1231 | 1376 | 1738 | 1882 | 2100 | 1448 | 2679 | 1738 | 1448 | 4416 |
| 7 | 100 | 1188 | 1584 | 1980 | 1742 | 1346 | 1346 | 1505 | 1901 | 2059 | 2297 | 1584 | 2930 | 1901 | 1584 | 4831 |
| 7 | 110 | 1274 | 1699 | 2124 | 1869 | 1444 | 1444 | 1614 | 2039 | 2209 | 2464 | 1699 | 3143 | 2039 | 1699 | 5182 |
| 7 | 125 | 1448 | 1931 | 2414 | 2124 | 1641 | 1641 | 1834 | 2317 | 2510 | 2800 | 1931 | 3572 | 2317 | 1931 | 5890 |
| 8 | 90 | 1392 | 1856 | 2320 | 2042 | 1578 | 1578 | 1763 | 2227 | 2413 | 2691 | 1856 | 3434 | 2227 | 1856 | 5661 |
| 8 | 100 | 1518 | 2024 | 2530 | 2226 | 1720 | 1720 | 1923 | 2429 | 2631 | 2935 | 2024 | 3744 | 2429 | 2024 | 6173 |
| 8 | 110 | 1623 | 2164 | 2705 | 2380 | 1839 | 1839 | 2056 | 2597 | 2813 | 3138 | 2164 | 4003 | 2597 | 2164 | 6600 |
| 8 | 125 | 1844 | 2459 | 3074 | 2705 | 2090 | 2090 | 2336 | 2951 | 3197 | 3566 | 2459 | 4549 | 2951 | 2459 | 7500 |

Thick Paint, Heavy Millscale or Heavy Pitted Rust

Hard Coating

Low Profile Range

SSPC-SP 10

Tables 4121 CC

| Operating Conditions | | Consumption Rate lbs/hr of Blasting | | | | | | | | | | | | | | |
|----------------------|----------------|-------------------------------------|--------|------|-----------------------------|------|--------|------|--------------------------------|------------|--------|--------|--------------|---------|-------|------|
| | | Typical Mineral Abrasive | | | Refinery & By-Product Grits | | | | Natural or Mined Grits & Sands | | | | Manufactured | | | |
| Nozzle Size | Pressure (psi) | -25% | Median | +25% | Copper | Coal | Nickel | Iron | Olivine | Staurolite | Garnet | Silica | Zircon | Alumina | Glass | Iron |
| 6 | 90 | 789 | 1052 | 1315 | 1157 | 894 | 894 | 999 | 1262 | 1368 | 1525 | 1052 | 1946 | 1262 | 1052 | 3209 |
| 6 | 100 | 864 | 1152 | 1440 | 1267 | 979 | 979 | 1094 | 1382 | 1498 | 1670 | 1152 | 2131 | 1382 | 1152 | 3514 |
| 6 | 110 | 920 | 1226 | 1533 | 1349 | 1042 | 1042 | 1165 | 1471 | 1594 | 1778 | 1226 | 2268 | 1471 | 1226 | 3739 |
| 6 | 125 | 1045 | 1393 | 1741 | 1532 | 1184 | 1184 | 1323 | 1672 | 1811 | 2020 | 1393 | 2577 | 1672 | 1393 | 4249 |
| 7 | 90 | 1086 | 1448 | 1810 | 1593 | 1231 | 1231 | 1376 | 1738 | 1882 | 2100 | 1448 | 2679 | 1738 | 1448 | 4416 |
| 7 | 100 | 1188 | 1584 | 1980 | 1742 | 1346 | 1346 | 1505 | 1901 | 2059 | 2297 | 1584 | 2930 | 1901 | 1584 | 4831 |
| 7 | 110 | 1274 | 1699 | 2124 | 1869 | 1444 | 1444 | 1614 | 2039 | 2209 | 2464 | 1699 | 3143 | 2039 | 1699 | 5182 |
| 7 | 125 | 1448 | 1931 | 2414 | 2124 | 1641 | 1641 | 1834 | 2317 | 2510 | 2800 | 1931 | 3572 | 2317 | 1931 | 5890 |
| 8 | 90 | 1392 | 1856 | 2320 | 2042 | 1578 | 1578 | 1763 | 2227 | 2413 | 2691 | 1856 | 3434 | 2227 | 1856 | 5661 |
| 8 | 100 | 1518 | 2024 | 2530 | 2226 | 1720 | 1720 | 1923 | 2429 | 2631 | 2935 | 2024 | 3744 | 2429 | 2024 | 6173 |
| 8 | 110 | 1623 | 2164 | 2705 | 2380 | 1839 | 1839 | 2056 | 2597 | 2813 | 3138 | 2164 | 4003 | 2597 | 2164 | 6600 |
| 8 | 125 | 1844 | 2459 | 3074 | 2705 | 2090 | 2090 | 2336 | 2951 | 3197 | 3566 | 2459 | 4549 | 2951 | 2459 | 7500 |

Thick Paint, Heavy Millscale or Heavy Pitted Rust

Hard Coating

Medium Profile Range

SSPC-SP 10

Tables 4122 CC

| Operating Conditions | | Consumption Rate lbs/hr of Blasting | | | | | | | | | | | | | | |
|----------------------|----------------|-------------------------------------|--------|------|-----------------------------|------|--------|------|--------------------------------|------------|--------|--------|--------------|---------|-------|------|
| | | Typical Mineral Abrasive | | | Refinery & By-Product Grits | | | | Natural or Mined Grits & Sands | | | | Manufactured | | | |
| Nozzle Size | Pressure (psi) | -25% | Median | +25% | Copper | Coal | Nickel | Iron | Olivine | Staurolite | Garnet | Silica | Zircon | Alumina | Glass | Iron |
| 6 | 90 | 789 | 1052 | 1315 | 1157 | 894 | 894 | 999 | 1262 | 1368 | 1525 | 1052 | 1946 | 1262 | 1052 | 3209 |
| 6 | 100 | 864 | 1152 | 1440 | 1267 | 979 | 979 | 1094 | 1382 | 1498 | 1670 | 1152 | 2131 | 1382 | 1152 | 3514 |
| 6 | 110 | 920 | 1226 | 1533 | 1349 | 1042 | 1042 | 1165 | 1471 | 1594 | 1778 | 1226 | 2268 | 1471 | 1226 | 3739 |
| 6 | 125 | 1045 | 1393 | 1741 | 1532 | 1184 | 1184 | 1323 | 1672 | 1811 | 2020 | 1393 | 2577 | 1672 | 1393 | 4249 |
| 7 | 90 | 1086 | 1448 | 1810 | 1593 | 1231 | 1231 | 1376 | 1738 | 1882 | 2100 | 1448 | 2679 | 1738 | 1448 | 4416 |
| 7 | 100 | 1188 | 1584 | 1980 | 1742 | 1346 | 1346 | 1505 | 1901 | 2059 | 2297 | 1584 | 2930 | 1901 | 1584 | 4831 |
| 7 | 110 | 1274 | 1699 | 2124 | 1869 | 1444 | 1444 | 1614 | 2039 | 2209 | 2464 | 1699 | 3143 | 2039 | 1699 | 5182 |
| 7 | 125 | 1448 | 1931 | 2414 | 2124 | 1641 | 1641 | 1834 | 2317 | 2510 | 2800 | 1931 | 3572 | 2317 | 1931 | 5890 |
| 8 | 90 | 1392 | 1856 | 2320 | 2042 | 1578 | 1578 | 1763 | 2227 | 2413 | 2691 | 1856 | 3434 | 2227 | 1856 | 5661 |
| 8 | 100 | 1518 | 2024 | 2530 | 2226 | 1720 | 1720 | 1923 | 2429 | 2631 | 2935 | 2024 | 3744 | 2429 | 2024 | 6173 |
| 8 | 110 | 1623 | 2164 | 2705 | 2380 | 1839 | 1839 | 2056 | 2597 | 2813 | 3138 | 2164 | 4003 | 2597 | 2164 | 6600 |
| 8 | 125 | 1844 | 2459 | 3074 | 2705 | 2090 | 2090 | 2336 | 2951 | 3197 | 3566 | 2459 | 4549 | 2951 | 2459 | 7500 |

Thick Paint, Heavy Millscale or Heavy Pitted Rust

Hard Coating

High Profile Range

SSPC-SP 10

Tables 4123

CC

| Operating Conditions | | Consumption Rate lbs/hr of Blasting | | | | | | | | | | | | | | |
|----------------------|----------------|-------------------------------------|--------|------|-----------------------------|------|--------|------|--------------------------------|------------|--------|--------|--------------|---------|-------|------|
| | | Typical Mineral Abrasive | | | Refinery & By-Product Grits | | | | Natural or Mined Grits & Sands | | | | Manufactured | | | |
| Nozzle Size | Pressure (psi) | -25% | Median | +25% | Copper | Coal | Nickel | Iron | Olivine | Staurolite | Garnet | Silica | Zircon | Alumina | Glass | Iron |
| 6 | 90 | 789 | 1052 | 1315 | 1157 | 894 | 894 | 999 | 1262 | 1368 | 1525 | 1052 | 1946 | 1262 | 1052 | 3209 |
| 6 | 100 | 864 | 1152 | 1440 | 1267 | 979 | 979 | 1094 | 1382 | 1498 | 1670 | 1152 | 2131 | 1382 | 1152 | 3514 |
| 6 | 110 | 920 | 1226 | 1533 | 1349 | 1042 | 1042 | 1165 | 1471 | 1594 | 1778 | 1226 | 2268 | 1471 | 1226 | 3739 |
| 6 | 125 | 1045 | 1393 | 1741 | 1532 | 1184 | 1184 | 1323 | 1672 | 1811 | 2020 | 1393 | 2577 | 1672 | 1393 | 4249 |
| 7 | 90 | 1086 | 1448 | 1810 | 1593 | 1231 | 1231 | 1376 | 1738 | 1882 | 2100 | 1448 | 2679 | 1738 | 1448 | 4416 |
| 7 | 100 | 1188 | 1584 | 1980 | 1742 | 1346 | 1346 | 1505 | 1901 | 2059 | 2297 | 1584 | 2930 | 1901 | 1584 | 4831 |
| 7 | 110 | 1274 | 1699 | 2124 | 1869 | 1444 | 1444 | 1614 | 2039 | 2209 | 2464 | 1699 | 3143 | 2039 | 1699 | 5182 |
| 7 | 125 | 1448 | 1931 | 2414 | 2124 | 1641 | 1641 | 1834 | 2317 | 2510 | 2800 | 1931 | 3572 | 2317 | 1931 | 5890 |
| 8 | 90 | 1392 | 1856 | 2320 | 2042 | 1578 | 1578 | 1763 | 2227 | 2413 | 2691 | 1856 | 3434 | 2227 | 1856 | 5661 |
| 8 | 100 | 1518 | 2024 | 2530 | 2226 | 1720 | 1720 | 1923 | 2429 | 2631 | 2935 | 2024 | 3744 | 2429 | 2024 | 6173 |
| 8 | 110 | 1623 | 2164 | 2705 | 2380 | 1839 | 1839 | 2056 | 2597 | 2813 | 3138 | 2164 | 4003 | 2597 | 2164 | 6600 |
| 8 | 125 | 1844 | 2459 | 3074 | 2705 | 2090 | 2090 | 2336 | 2951 | 3197 | 3566 | 2459 | 4549 | 2951 | 2459 | 7500 |

Thick Paint, Heavy Millscale or Heavy Pitted Rust

Hard Coating

Low Profile Range

SSPC-SP 6

Tables 4131 CC

| Operating Conditions | | Consumption Rate lbs/hr of Blasting | | | | | | | | | | | | | | |
|----------------------|----------------|-------------------------------------|--------|------|-----------------------------|------|--------|------|--------------------------------|------------|--------|--------|--------------|---------|-------|------|
| | | Typical Mineral Abrasive | | | Refinery & By-Product Grits | | | | Natural or Mined Grits & Sands | | | | Manufactured | | | |
| Nozzle Size | Pressure (psi) | -25% | Median | +25% | Copper | Coal | Nickel | Iron | Olivine | Staurolite | Garnet | Silica | Zircon | Alumina | Glass | Iron |
| 6 | 90 | 789 | 1052 | 1315 | 1157 | 894 | 894 | 999 | 1262 | 1368 | 1525 | 1052 | 1946 | 1262 | 1052 | 3209 |
| 6 | 100 | 864 | 1152 | 1440 | 1267 | 979 | 979 | 1094 | 1382 | 1498 | 1670 | 1152 | 2131 | 1382 | 1152 | 3514 |
| 6 | 110 | 920 | 1226 | 1533 | 1349 | 1042 | 1042 | 1165 | 1471 | 1594 | 1778 | 1226 | 2268 | 1471 | 1226 | 3739 |
| 6 | 125 | 1045 | 1393 | 1741 | 1532 | 1184 | 1184 | 1323 | 1672 | 1811 | 2020 | 1393 | 2577 | 1672 | 1393 | 4249 |
| 7 | 90 | 1086 | 1448 | 1810 | 1593 | 1231 | 1231 | 1376 | 1738 | 1882 | 2100 | 1448 | 2679 | 1738 | 1448 | 4416 |
| 7 | 100 | 1188 | 1584 | 1980 | 1742 | 1346 | 1346 | 1505 | 1901 | 2059 | 2297 | 1584 | 2930 | 1901 | 1584 | 4831 |
| 7 | 110 | 1274 | 1699 | 2124 | 1869 | 1444 | 1444 | 1614 | 2039 | 2209 | 2464 | 1699 | 3143 | 2039 | 1699 | 5182 |
| 7 | 125 | 1448 | 1931 | 2414 | 2124 | 1641 | 1641 | 1834 | 2317 | 2510 | 2800 | 1931 | 3572 | 2317 | 1931 | 5890 |
| 8 | 90 | 1392 | 1856 | 2320 | 2042 | 1578 | 1578 | 1763 | 2227 | 2413 | 2691 | 1856 | 3434 | 2227 | 1856 | 5661 |
| 8 | 100 | 1518 | 2024 | 2530 | 2226 | 1720 | 1720 | 1923 | 2429 | 2631 | 2935 | 2024 | 3744 | 2429 | 2024 | 6173 |
| 8 | 110 | 1623 | 2164 | 2705 | 2380 | 1839 | 1839 | 2056 | 2597 | 2813 | 3138 | 2164 | 4003 | 2597 | 2164 | 6600 |
| 8 | 125 | 1844 | 2459 | 3074 | 2705 | 2090 | 2090 | 2336 | 2951 | 3197 | 3566 | 2459 | 4549 | 2951 | 2459 | 7500 |

Thick Paint, Heavy Millscale or Heavy Pitted Rust

Hard Coating

Medium Profile Range

SSPC-SP 6

Tables 4132 CC

| Operating Conditions | | Consumption Rate lbs/hr of Blasting | | | | | | | | | | | | | | |
|----------------------|----------------|-------------------------------------|--------|------|-----------------------------|------|--------|------|--------------------------------|------------|--------|--------|--------------|---------|-------|------|
| | | Typical Mineral Abrasive | | | Refinery & By-Product Grits | | | | Natural or Mined Grits & Sands | | | | Manufactured | | | |
| Nozzle Size | Pressure (psi) | -25% | Median | +25% | Copper | Coal | Nickel | Iron | Olivine | Staurolite | Garnet | Silica | Zircon | Alumina | Glass | Iron |
| 6 | 90 | 789 | 1052 | 1315 | 1157 | 894 | 894 | 999 | 1262 | 1368 | 1525 | 1052 | 1946 | 1262 | 1052 | 3209 |
| 6 | 100 | 864 | 1152 | 1440 | 1267 | 979 | 979 | 1094 | 1382 | 1498 | 1670 | 1152 | 2131 | 1382 | 1152 | 3514 |
| 6 | 110 | 920 | 1226 | 1533 | 1349 | 1042 | 1042 | 1165 | 1471 | 1594 | 1778 | 1226 | 2268 | 1471 | 1226 | 3739 |
| 6 | 125 | 1045 | 1393 | 1741 | 1532 | 1184 | 1184 | 1323 | 1672 | 1811 | 2020 | 1393 | 2577 | 1672 | 1393 | 4249 |
| 7 | 90 | 1086 | 1448 | 1810 | 1593 | 1231 | 1231 | 1376 | 1738 | 1882 | 2100 | 1448 | 2679 | 1738 | 1448 | 4416 |
| 7 | 100 | 1188 | 1584 | 1980 | 1742 | 1346 | 1346 | 1505 | 1901 | 2059 | 2297 | 1584 | 2930 | 1901 | 1584 | 4831 |
| 7 | 110 | 1274 | 1699 | 2124 | 1869 | 1444 | 1444 | 1614 | 2039 | 2209 | 2464 | 1699 | 3143 | 2039 | 1699 | 5182 |
| 7 | 125 | 1448 | 1931 | 2414 | 2124 | 1641 | 1641 | 1834 | 2317 | 2510 | 2800 | 1931 | 3572 | 2317 | 1931 | 5890 |
| 8 | 90 | 1392 | 1856 | 2320 | 2042 | 1578 | 1578 | 1763 | 2227 | 2413 | 2691 | 1856 | 3434 | 2227 | 1856 | 5661 |
| 8 | 100 | 1518 | 2024 | 2530 | 2226 | 1720 | 1720 | 1923 | 2429 | 2631 | 2935 | 2024 | 3744 | 2429 | 2024 | 6173 |
| 8 | 110 | 1623 | 2164 | 2705 | 2380 | 1839 | 1839 | 2056 | 2597 | 2813 | 3138 | 2164 | 4003 | 2597 | 2164 | 6600 |
| 8 | 125 | 1844 | 2459 | 3074 | 2705 | 2090 | 2090 | 2336 | 2951 | 3197 | 3566 | 2459 | 4549 | 2951 | 2459 | 7500 |

Thick Paint, Heavy Millscale or Heavy Pitted Rust

Hard Coating

High Profile Range

SSPC-SP 6

Tables 4133 CC

| Operating Conditions | | Consumption Rate lbs/hr of Blasting | | | | | | | | | | | | | | |
|----------------------|----------------|-------------------------------------|--------|------|-----------------------------|------|--------|------|--------------------------------|------------|--------|--------|--------------|---------|-------|------------|
| | | Typical Mineral Abrasive | | | Refinery & By-Product Grits | | | | Natural or Mined Grits & Sands | | | | Manufactured | | | |
| Nozzle Size | Pressure (psi) | -25% | Median | +25% | Copper | Coal | Nickel | Iron | Olivine | Staurolite | Garnet | Silica | Zircon | Alumina | Glass | Steel Iron |
| 6 | 90 | 789 | 1052 | 1315 | 1157 | 894 | 894 | 999 | 1262 | 1368 | 1525 | 1052 | 1946 | 1262 | 1052 | 3209 |
| 7 | 90 | 1086 | 1448 | 1810 | 1593 | 1231 | 1231 | 1376 | 1738 | 1882 | 2100 | 1448 | 2679 | 1738 | 1448 | 4416 |
| 8 | 90 | 1392 | 1856 | 2320 | 2042 | 1578 | 1578 | 1763 | 2227 | 2413 | 2691 | 1856 | 3434 | 2227 | 1856 | 5661 |
| 6 | 100 | 864 | 1152 | 1440 | 1267 | 979 | 979 | 1094 | 1382 | 1498 | 1670 | 1152 | 2131 | 1382 | 1152 | 3514 |
| 7 | 100 | 1188 | 1584 | 1980 | 1742 | 1346 | 1346 | 1505 | 1901 | 2059 | 2297 | 1584 | 2930 | 1901 | 1584 | 4831 |
| 8 | 100 | 1518 | 2024 | 2530 | 2226 | 1720 | 1720 | 1923 | 2429 | 2631 | 2935 | 2024 | 3744 | 2429 | 2024 | 6173 |
| 6 | 110 | 920 | 1226 | 1533 | 1349 | 1042 | 1042 | 1165 | 1471 | 1594 | 1778 | 1226 | 2268 | 1471 | 1226 | 3739 |
| 7 | 110 | 1274 | 1699 | 2124 | 1869 | 1444 | 1444 | 1614 | 2039 | 2209 | 2464 | 1699 | 3143 | 2039 | 1699 | 5182 |
| 8 | 110 | 1623 | 2164 | 2705 | 2380 | 1839 | 1839 | 2056 | 2597 | 2813 | 3138 | 2164 | 4003 | 2597 | 2164 | 6600 |
| 6 | 125 | 1045 | 1393 | 1741 | 1532 | 1184 | 1184 | 1323 | 1672 | 1811 | 2020 | 1393 | 2577 | 1672 | 1393 | 4249 |
| 7 | 125 | 1448 | 1931 | 2414 | 2124 | 1641 | 1641 | 1834 | 2317 | 2510 | 2800 | 1931 | 3572 | 2317 | 1931 | 5890 |
| 8 | 125 | 1844 | 2459 | 3074 | 2705 | 2090 | 2090 | 2336 | 2951 | 3197 | 3566 | 2459 | 4549 | 2951 | 2459 | 7500 |

Thick Paint, Heavy Millscale or Heavy Pitted Rust

Hard Coating

Low Profile Range

SSPC-SP 7

Tables 4141 CC

| Operating Conditions | | Consumption Rate lbs/hr of Blasting | | | | | | | | | | | | | | |
|----------------------|----------------|-------------------------------------|--------|------|-----------------------------|------|--------|------|--------------------------------|------------|--------|--------|--------------|---------|-------|------|
| | | Typical Mineral Abrasive | | | Refinery & By-Product Grits | | | | Natural or Mined Grits & Sands | | | | Manufactured | | | |
| Nozzle Size | Pressure (psi) | -25% | Median | +25% | Copper | Coal | Nickel | Iron | Olivine | Staurolite | Garnet | Silica | Zircon | Alumina | Glass | |
| 6 | 90 | 789 | 1052 | 1315 | 1157 | 894 | 894 | 999 | 1262 | 1368 | 1525 | 1052 | 1946 | 1262 | 1052 | 3209 |
| 6 | 100 | 864 | 1152 | 1440 | 1267 | 979 | 979 | 1094 | 1382 | 1498 | 1670 | 1152 | 2131 | 1382 | 1152 | 3514 |
| 6 | 110 | 920 | 1226 | 1533 | 1349 | 1042 | 1042 | 1165 | 1471 | 1594 | 1778 | 1226 | 2268 | 1471 | 1226 | 3739 |
| 6 | 125 | 1045 | 1393 | 1741 | 1532 | 1184 | 1184 | 1323 | 1672 | 1811 | 2020 | 1393 | 2577 | 1672 | 1393 | 4249 |
| 7 | 90 | 1086 | 1448 | 1810 | 1593 | 1231 | 1231 | 1376 | 1738 | 1882 | 2100 | 1448 | 2679 | 1738 | 1448 | 4416 |
| 7 | 100 | 1188 | 1584 | 1980 | 1742 | 1346 | 1346 | 1505 | 1901 | 2059 | 2297 | 1584 | 2930 | 1901 | 1584 | 4831 |
| 7 | 110 | 1274 | 1699 | 2124 | 1869 | 1444 | 1444 | 1614 | 2039 | 2209 | 2464 | 1699 | 3143 | 2039 | 1699 | 5182 |
| 7 | 125 | 1448 | 1931 | 2414 | 2124 | 1641 | 1641 | 1834 | 2317 | 2510 | 2800 | 1931 | 3572 | 2317 | 1931 | 5890 |
| 8 | 90 | 1392 | 1856 | 2320 | 2042 | 1578 | 1578 | 1763 | 2227 | 2413 | 2691 | 1856 | 3434 | 2227 | 1856 | 5661 |
| 8 | 100 | 1518 | 2024 | 2530 | 2226 | 1720 | 1720 | 1923 | 2429 | 2631 | 2935 | 2024 | 3744 | 2429 | 2024 | 6173 |
| 8 | 110 | 1623 | 2164 | 2705 | 2380 | 1839 | 1839 | 2056 | 2597 | 2813 | 3138 | 2164 | 4003 | 2597 | 2164 | 6600 |
| 8 | 125 | 1844 | 2459 | 3074 | 2705 | 2090 | 2090 | 2336 | 2951 | 3197 | 3566 | 2459 | 4549 | 2951 | 2459 | 7500 |

Thick Paint, Heavy Millscale or Heavy Pitted Rust

Soft Coating

Low Profile Range

SSPC-SP 5

Tables 4211 CC

| Operating Conditions | | Consumption Rate lbs/hr of Blasting | | | | | | | | | | | | | | |
|----------------------|----------------|-------------------------------------|--------|------|-----------------------------|------|--------|------|--------------------------------|------------|--------|--------|--------------|---------|-------|------|
| | | Typical Mineral Abrasive | | | Refinery & By-Product Grits | | | | Natural or Mined Grits & Sands | | | | Manufactured | | | |
| Nozzle Size | Pressure (psi) | -25% | Median | +25% | Copper | Coal | Nickel | Iron | Olivine | Staurolite | Garnet | Silica | Zircon | Alumina | Glass | Iron |
| 6 | 90 | 789 | 1052 | 1315 | 1157 | 894 | 894 | 999 | 1262 | 1368 | 1525 | 1052 | 1946 | 1262 | 1052 | 3209 |
| 6 | 100 | 864 | 1152 | 1440 | 1267 | 979 | 979 | 1094 | 1382 | 1498 | 1670 | 1152 | 2131 | 1382 | 1152 | 3514 |
| 6 | 110 | 920 | 1226 | 1533 | 1349 | 1042 | 1042 | 1165 | 1471 | 1594 | 1778 | 1226 | 2268 | 1471 | 1226 | 3739 |
| 6 | 125 | 1045 | 1393 | 1741 | 1532 | 1184 | 1184 | 1323 | 1672 | 1811 | 2020 | 1393 | 2577 | 1672 | 1393 | 4249 |
| 7 | 90 | 1086 | 1448 | 1810 | 1593 | 1231 | 1231 | 1376 | 1738 | 1882 | 2100 | 1448 | 2679 | 1738 | 1448 | 4416 |
| 7 | 100 | 1188 | 1584 | 1980 | 1742 | 1346 | 1346 | 1505 | 1901 | 2059 | 2297 | 1584 | 2930 | 1901 | 1584 | 4831 |
| 7 | 110 | 1274 | 1699 | 2124 | 1869 | 1444 | 1444 | 1614 | 2039 | 2209 | 2464 | 1699 | 3143 | 2039 | 1699 | 5182 |
| 7 | 125 | 1448 | 1931 | 2414 | 2124 | 1641 | 1641 | 1834 | 2317 | 2510 | 2800 | 1931 | 3572 | 2317 | 1931 | 5890 |
| 8 | 90 | 1392 | 1856 | 2320 | 2042 | 1578 | 1578 | 1763 | 2227 | 2413 | 2691 | 1856 | 3434 | 2227 | 1856 | 5661 |
| 8 | 100 | 1518 | 2024 | 2530 | 2226 | 1720 | 1720 | 1923 | 2429 | 2631 | 2935 | 2024 | 3744 | 2429 | 2024 | 6173 |
| 8 | 110 | 1623 | 2164 | 2705 | 2380 | 1839 | 1839 | 2056 | 2597 | 2813 | 3138 | 2164 | 4003 | 2597 | 2164 | 6600 |
| 8 | 125 | 1844 | 2459 | 3074 | 2705 | 2090 | 2090 | 2336 | 2951 | 3197 | 3566 | 2459 | 4549 | 2951 | 2459 | 7500 |

Thick Paint, Heavy Millscale or Heavy Pitted Rust

Soft Coating

Medium Profile Range

SSPC-SP 5

Tables 4212 C C

| Operating Conditions | | Consumption Rate lbs/hr of Blasting | | | | | | | | | | | | | | |
|----------------------|----------------|-------------------------------------|--------|------|-----------------------------|------|--------|------|--------------------------------|------------|--------|--------|--------------|---------|-------|------|
| | | Typical Mineral Abrasive | | | Refinery & By-Product Grits | | | | Natural or Mined Grits & Sands | | | | Manufactured | | | |
| Nozzle Size | Pressure (psi) | -25% | Median | +25% | Copper | Coal | Nickel | Iron | Olivine | Staurolite | Garnet | Silica | Zircon | Alumina | Glass | |
| 6 | 90 | 789 | 1052 | 1315 | 1157 | 894 | 894 | 999 | 1262 | 1368 | 1525 | 1052 | 1946 | 1262 | 1052 | 3209 |
| 6 | 100 | 864 | 1152 | 1440 | 1267 | 979 | 979 | 1094 | 1382 | 1498 | 1670 | 1152 | 2131 | 1382 | 1152 | 3514 |
| 6 | 110 | 920 | 1226 | 1533 | 1349 | 1042 | 1042 | 1165 | 1471 | 1594 | 1778 | 1226 | 2268 | 1471 | 1226 | 3739 |
| 6 | 125 | 1045 | 1393 | 1741 | 1532 | 1184 | 1184 | 1323 | 1672 | 1811 | 2020 | 1393 | 2577 | 1672 | 1393 | 4249 |
| 7 | 90 | 1086 | 1448 | 1810 | 1593 | 1231 | 1231 | 1376 | 1738 | 1882 | 2100 | 1448 | 2679 | 1738 | 1448 | 4416 |
| 7 | 100 | 1188 | 1584 | 1980 | 1742 | 1346 | 1346 | 1505 | 1901 | 2059 | 2297 | 1584 | 2930 | 1901 | 1584 | 4831 |
| 7 | 110 | 1274 | 1699 | 2124 | 1869 | 1444 | 1444 | 1614 | 2039 | 2209 | 2464 | 1699 | 3143 | 2039 | 1699 | 5182 |
| 7 | 125 | 1448 | 1931 | 2414 | 2124 | 1641 | 1641 | 1834 | 2317 | 2510 | 2800 | 1931 | 3572 | 2317 | 1931 | 5890 |
| 8 | 90 | 1392 | 1856 | 2320 | 2042 | 1578 | 1578 | 1763 | 2227 | 2413 | 2691 | 1856 | 3434 | 2227 | 1856 | 5661 |
| 8 | 100 | 1518 | 2024 | 2530 | 2226 | 1720 | 1720 | 1923 | 2429 | 2631 | 2935 | 2024 | 3744 | 2429 | 2024 | 6173 |
| 8 | 110 | 1623 | 2164 | 2705 | 2380 | 1839 | 1839 | 2056 | 2597 | 2813 | 3138 | 2164 | 4003 | 2597 | 2164 | 6600 |
| 8 | 125 | 1844 | 2459 | 3074 | 2705 | 2090 | 2090 | 2336 | 2951 | 3197 | 3566 | 2459 | 4549 | 2951 | 2459 | 7500 |

Thick Paint, Heavy Millscale or Heavy Pitted Rust

Soft Coating

High Profile Range

SSPC-SP 5

Tables 4213 CC

| Operating Conditions | | Consumption Rate lbs/hr of Blasting | | | | | | | | | | | | | | |
|----------------------|----------------|-------------------------------------|--------|------|-----------------------------|------|--------|------|--------------------------------|------------|--------|--------|--------------|---------|-------|------|
| | | Typical Mineral Abrasive | | | Refinery & By-Product Grits | | | | Natural or Mined Grits & Sands | | | | Manufactured | | | |
| Nozzle Size | Pressure (psi) | -25% | Median | +25% | Copper | Coal | Nickel | Iron | Olivine | Staurolite | Garnet | Silica | Zircon | Alumina | Glass | Iron |
| 6 | 90 | 789 | 1052 | 1315 | 1157 | 894 | 894 | 999 | 1262 | 1368 | 1525 | 1052 | 1946 | 1262 | 1052 | 3209 |
| 6 | 100 | 864 | 1152 | 1440 | 1267 | 979 | 979 | 1094 | 1382 | 1498 | 1670 | 1152 | 2131 | 1382 | 1152 | 3514 |
| 6 | 110 | 920 | 1226 | 1533 | 1349 | 1042 | 1042 | 1165 | 1471 | 1594 | 1778 | 1226 | 2268 | 1471 | 1226 | 3739 |
| 6 | 125 | 1045 | 1393 | 1741 | 1532 | 1184 | 1184 | 1323 | 1672 | 1811 | 2020 | 1393 | 2577 | 1672 | 1393 | 4249 |
| 7 | 90 | 1086 | 1448 | 1810 | 1593 | 1231 | 1231 | 1376 | 1738 | 1882 | 2100 | 1448 | 2679 | 1738 | 1448 | 4416 |
| 7 | 100 | 1188 | 1584 | 1980 | 1742 | 1346 | 1346 | 1505 | 1901 | 2059 | 2297 | 1584 | 2930 | 1901 | 1584 | 4831 |
| 7 | 110 | 1274 | 1699 | 2124 | 1869 | 1444 | 1444 | 1614 | 2039 | 2209 | 2464 | 1699 | 3143 | 2039 | 1699 | 5182 |
| 7 | 125 | 1448 | 1931 | 2414 | 2124 | 1641 | 1641 | 1834 | 2317 | 2510 | 2800 | 1931 | 3572 | 2317 | 1931 | 5890 |
| 8 | 90 | 1392 | 1856 | 2320 | 2042 | 1578 | 1578 | 1763 | 2227 | 2413 | 2691 | 1856 | 3434 | 2227 | 1856 | 5661 |
| 8 | 100 | 1518 | 2024 | 2530 | 2226 | 1720 | 1720 | 1923 | 2429 | 2631 | 2935 | 2024 | 3744 | 2429 | 2024 | 6173 |
| 8 | 110 | 1623 | 2164 | 2705 | 2380 | 1839 | 1839 | 2056 | 2597 | 2813 | 3138 | 2164 | 4003 | 2597 | 2164 | 6600 |
| 8 | 125 | 1844 | 2459 | 3074 | 2705 | 2090 | 2090 | 2336 | 2951 | 3197 | 3566 | 2459 | 4549 | 2951 | 2459 | 7500 |

Thick Paint, Heavy Millscale or Heavy Pitted Rust

Soft Coating

Low Profile Range

SSPC-SP 10

Tables 4221 CC

| Operating Conditions | | Consumption Rate lbs/hr of Blasting | | | | | | | | | | | | | | |
|----------------------|----------------|-------------------------------------|--------|------|-----------------------------|------|--------|------|--------------------------------|------------|--------|--------|--------------|---------|-------|------|
| | | Typical Mineral Abrasive | | | Refinery & By-Product Grits | | | | Natural or Mined Grits & Sands | | | | Manufactured | | | |
| Nozzle Size | Pressure (psi) | -25% | Median | +25% | Copper | Coal | Nickel | Iron | Olivine | Staurolite | Garnet | Silica | Zircon | Alumina | Glass | Iron |
| 6 | 90 | 789 | 1052 | 1315 | 1157 | 894 | 894 | 999 | 1262 | 1368 | 1525 | 1052 | 1946 | 1262 | 1052 | 3209 |
| 6 | 100 | 864 | 1152 | 1440 | 1267 | 979 | 979 | 1094 | 1382 | 1498 | 1670 | 1152 | 2131 | 1382 | 1152 | 3514 |
| 6 | 110 | 920 | 1226 | 1533 | 1349 | 1042 | 1042 | 1165 | 1471 | 1594 | 1778 | 1226 | 2268 | 1471 | 1226 | 3739 |
| 6 | 125 | 1045 | 1393 | 1741 | 1532 | 1184 | 1184 | 1323 | 1672 | 1811 | 2020 | 1393 | 2577 | 1672 | 1393 | 4249 |
| 7 | 90 | 1086 | 1448 | 1810 | 1593 | 1231 | 1231 | 1376 | 1738 | 1882 | 2100 | 1448 | 2679 | 1738 | 1448 | 4416 |
| 7 | 100 | 1188 | 1584 | 1980 | 1742 | 1346 | 1346 | 1505 | 1901 | 2059 | 2297 | 1584 | 2930 | 1901 | 1584 | 4831 |
| 7 | 110 | 1274 | 1699 | 2124 | 1869 | 1444 | 1444 | 1614 | 2039 | 2209 | 2464 | 1699 | 3143 | 2039 | 1699 | 5182 |
| 7 | 125 | 1448 | 1931 | 2414 | 2124 | 1641 | 1641 | 1834 | 2317 | 2510 | 2800 | 1931 | 3572 | 2317 | 1931 | 5890 |
| 8 | 90 | 1392 | 1856 | 2320 | 2042 | 1578 | 1578 | 1763 | 2227 | 2413 | 2691 | 1856 | 3434 | 2227 | 1856 | 5661 |
| 8 | 100 | 1518 | 2024 | 2530 | 2226 | 1720 | 1720 | 1923 | 2429 | 2631 | 2935 | 2024 | 3744 | 2429 | 2024 | 6173 |
| 8 | 110 | 1623 | 2164 | 2705 | 2380 | 1839 | 1839 | 2056 | 2597 | 2813 | 3138 | 2164 | 4003 | 2597 | 2164 | 6600 |
| 8 | 125 | 1844 | 2459 | 3074 | 2705 | 2090 | 2090 | 2336 | 2951 | 3197 | 3566 | 2459 | 4549 | 2951 | 2459 | 7500 |

Thick Paint, Heavy Millscale or Heavy Pitted Rust

Soft Coating

Medium Profile Range

SSPC-SP 10

Tables 4222 C C

| Operating Conditions | | Consumption Rate lbs/hr of Blasting | | | | | | | | | | | | | | |
|----------------------|----------------|-------------------------------------|--------|------|-----------------------------|------|--------|------|--------------------------------|------------|--------|--------|--------------|---------|-------|------|
| | | Typical Mineral Abrasive | | | Refinery & By-Product Grits | | | | Natural or Mined Grits & Sands | | | | Manufactured | | | |
| Nozzle Size | Pressure (psi) | -25% | Median | +25% | Copper | Coal | Nickel | Iron | Olivine | Staurolite | Garnet | Silica | Zircon | Alumina | Glass | |
| 6 | 90 | 789 | 1052 | 1315 | 1157 | 894 | 894 | 999 | 1262 | 1368 | 1525 | 1052 | 1946 | 1262 | 1052 | 3209 |
| 6 | 100 | 864 | 1152 | 1440 | 1267 | 979 | 979 | 1094 | 1382 | 1498 | 1670 | 1152 | 2131 | 1382 | 1152 | 3514 |
| 6 | 110 | 920 | 1226 | 1533 | 1349 | 1042 | 1042 | 1165 | 1471 | 1594 | 1778 | 1226 | 2268 | 1471 | 1226 | 3739 |
| 6 | 125 | 1045 | 1393 | 1741 | 1532 | 1184 | 1184 | 1323 | 1672 | 1811 | 2020 | 1393 | 2577 | 1672 | 1393 | 4249 |
| 7 | 90 | 1086 | 1448 | 1810 | 1593 | 1231 | 1231 | 1376 | 1738 | 1882 | 2100 | 1448 | 2679 | 1738 | 1448 | 4416 |
| 7 | 100 | 1188 | 1584 | 1980 | 1742 | 1346 | 1346 | 1505 | 1901 | 2059 | 2297 | 1584 | 2930 | 1901 | 1584 | 4831 |
| 7 | 110 | 1274 | 1699 | 2124 | 1869 | 1444 | 1444 | 1614 | 2039 | 2209 | 2464 | 1699 | 3143 | 2039 | 1699 | 5182 |
| 7 | 125 | 1448 | 1931 | 2414 | 2124 | 1641 | 1641 | 1834 | 2317 | 2510 | 2800 | 1931 | 3572 | 2317 | 1931 | 5890 |
| 8 | 90 | 1392 | 1856 | 2320 | 2042 | 1578 | 1578 | 1763 | 2227 | 2413 | 2691 | 1856 | 3434 | 2227 | 1856 | 5661 |
| 8 | 100 | 1518 | 2024 | 2530 | 2226 | 1720 | 1720 | 1923 | 2429 | 2631 | 2935 | 2024 | 3744 | 2429 | 2024 | 6173 |
| 8 | 110 | 1623 | 2164 | 2705 | 2380 | 1839 | 1839 | 2056 | 2597 | 2813 | 3138 | 2164 | 4003 | 2597 | 2164 | 6600 |
| 8 | 125 | 1844 | 2459 | 3074 | 2705 | 2090 | 2090 | 2336 | 2951 | 3197 | 3566 | 2459 | 4549 | 2951 | 2459 | 7500 |

Thick Paint, Heavy Millscale or Heavy Pitted Rust

Soft Coating

High Profile Range

SSPC-SP 10

Tables 4223 CC

| Operating Conditions | | Consumption Rate lbs/hr of Blasting | | | | | | | | | | | | | | |
|----------------------|----------------|-------------------------------------|--------|------|-----------------------------|------|--------|------|--------------------------------|------------|--------|--------|--------------|---------|-------|------|
| | | Typical Mineral Abrasive | | | Refinery & By-Product Grits | | | | Natural or Mined Grits & Sands | | | | Manufactured | | | |
| Nozzle Size | Pressure (psi) | -25% | Median | +25% | Copper | Coal | Nickel | Iron | Olivine | Staurolite | Garnet | Silica | Zircon | Alumina | Glass | |
| 6 | 90 | 789 | 1052 | 1315 | 1157 | 894 | 894 | 999 | 1262 | 1368 | 1525 | 1052 | 1946 | 1262 | 1052 | 3209 |
| 6 | 100 | 864 | 1152 | 1440 | 1267 | 979 | 979 | 1094 | 1382 | 1498 | 1670 | 1152 | 2131 | 1382 | 1152 | 3514 |
| 6 | 110 | 920 | 1226 | 1533 | 1349 | 1042 | 1042 | 1165 | 1471 | 1594 | 1778 | 1226 | 2268 | 1471 | 1226 | 3739 |
| 6 | 125 | 1045 | 1393 | 1741 | 1532 | 1184 | 1184 | 1323 | 1672 | 1811 | 2020 | 1393 | 2577 | 1672 | 1393 | 4249 |
| 7 | 90 | 1086 | 1448 | 1810 | 1593 | 1231 | 1231 | 1376 | 1738 | 1882 | 2100 | 1448 | 2679 | 1738 | 1448 | 4416 |
| 7 | 100 | 1188 | 1584 | 1980 | 1742 | 1346 | 1346 | 1505 | 1901 | 2059 | 2297 | 1584 | 2930 | 1901 | 1584 | 4831 |
| 7 | 110 | 1274 | 1699 | 2124 | 1869 | 1444 | 1444 | 1614 | 2039 | 2209 | 2464 | 1699 | 3143 | 2039 | 1699 | 5182 |
| 7 | 125 | 1448 | 1931 | 2414 | 2124 | 1641 | 1641 | 1834 | 2317 | 2510 | 2800 | 1931 | 3572 | 2317 | 1931 | 5890 |
| 8 | 90 | 1392 | 1856 | 2320 | 2042 | 1578 | 1578 | 1763 | 2227 | 2413 | 2691 | 1856 | 3434 | 2227 | 1856 | 5661 |
| 8 | 100 | 1518 | 2024 | 2530 | 2226 | 1720 | 1720 | 1923 | 2429 | 2631 | 2935 | 2024 | 3744 | 2429 | 2024 | 6173 |
| 8 | 110 | 1623 | 2164 | 2705 | 2380 | 1839 | 1839 | 2056 | 2597 | 2813 | 3138 | 2164 | 4003 | 2597 | 2164 | 6600 |
| 8 | 125 | 1844 | 2459 | 3074 | 2705 | 2090 | 2090 | 2336 | 2951 | 3197 | 3566 | 2459 | 4549 | 2951 | 2459 | 7500 |

Thick Paint, Heavy Millscale or Heavy Pitted Rust

Soft Coating

Low Profile Range

SSPC-SP 6

Tables 4231 CC

| Operating Conditions | | Consumption Rate lbs/hr of Blasting | | | | | | | | | | | | | | |
|----------------------|----------------|-------------------------------------|--------|------|-----------------------------|------|--------|------|--------------------------------|------------|--------|--------|--------------|---------|-------|------|
| | | Typical Mineral Abrasive | | | Refinery & By-Product Grits | | | | Natural or Mined Grits & Sands | | | | Manufactured | | | |
| Nozzle Size | Pressure (psi) | -25% | Median | +25% | Copper | Coal | Nickel | Iron | Olivine | Staurolite | Garnet | Silica | Zircon | Alumina | Glass | Iron |
| 6 | 90 | 789 | 1052 | 1315 | 1157 | 894 | 894 | 999 | 1262 | 1368 | 1525 | 1052 | 1946 | 1262 | 1052 | 3209 |
| 6 | 100 | 864 | 1152 | 1440 | 1267 | 979 | 979 | 1094 | 1382 | 1498 | 1670 | 1152 | 2131 | 1382 | 1152 | 3514 |
| 6 | 110 | 920 | 1226 | 1533 | 1349 | 1042 | 1042 | 1165 | 1471 | 1594 | 1778 | 1226 | 2268 | 1471 | 1226 | 3739 |
| 6 | 125 | 1045 | 1393 | 1741 | 1532 | 1184 | 1184 | 1323 | 1672 | 1811 | 2020 | 1393 | 2577 | 1672 | 1393 | 4249 |
| 7 | 90 | 1086 | 1448 | 1810 | 1593 | 1231 | 1231 | 1376 | 1738 | 1882 | 2100 | 1448 | 2679 | 1738 | 1448 | 4416 |
| 7 | 100 | 1188 | 1584 | 1980 | 1742 | 1346 | 1346 | 1505 | 1901 | 2059 | 2297 | 1584 | 2930 | 1901 | 1584 | 4831 |
| 7 | 110 | 1274 | 1699 | 2124 | 1869 | 1444 | 1444 | 1614 | 2039 | 2209 | 2464 | 1699 | 3143 | 2039 | 1699 | 5182 |
| 7 | 125 | 1448 | 1931 | 2414 | 2124 | 1641 | 1641 | 1834 | 2317 | 2510 | 2800 | 1931 | 3572 | 2317 | 1931 | 5890 |
| 8 | 90 | 1392 | 1856 | 2320 | 2042 | 1578 | 1578 | 1763 | 2227 | 2413 | 2691 | 1856 | 3434 | 2227 | 1856 | 5661 |
| 8 | 100 | 1518 | 2024 | 2530 | 2226 | 1720 | 1720 | 1923 | 2429 | 2631 | 2935 | 2024 | 3744 | 2429 | 2024 | 6173 |
| 8 | 110 | 1623 | 2164 | 2705 | 2380 | 1839 | 1839 | 2056 | 2597 | 2813 | 3138 | 2164 | 4003 | 2597 | 2164 | 6600 |
| 8 | 125 | 1844 | 2459 | 3074 | 2705 | 2090 | 2090 | 2336 | 2951 | 3197 | 3566 | 2459 | 4549 | 2951 | 2459 | 7500 |

Thick Paint, Heavy Millscale or Heavy Pitted Rust

Soft Coating

Medium Profile Range

SSPC-SP 6

Tables 4232 C C

| Operating Conditions | | Consumption Rate lbs/hr of Blasting | | | | | | | | | | | | | | |
|----------------------|----------------|-------------------------------------|--------|------|-----------------------------|------|--------|------|--------------------------------|------------|--------|--------|--------------|---------|-------|------|
| | | Typical Mineral Abrasive | | | Refinery & By-Product Grits | | | | Natural or Mined Grits & Sands | | | | Manufactured | | | |
| Nozzle Size | Pressure (psi) | -25% | Median | +25% | Copper | Coal | Nickel | Iron | Olivine | Staurolite | Garnet | Silica | Zircon | Alumina | Glass | Iron |
| 6 | 90 | 789 | 1052 | 1315 | 1157 | 894 | 894 | 999 | 1262 | 1368 | 1525 | 1052 | 1946 | 1262 | 1052 | 3209 |
| 6 | 100 | 864 | 1152 | 1440 | 1267 | 979 | 979 | 1094 | 1382 | 1498 | 1670 | 1152 | 2131 | 1382 | 1152 | 3514 |
| 6 | 110 | 920 | 1226 | 1533 | 1349 | 1042 | 1042 | 1165 | 1471 | 1594 | 1778 | 1226 | 2268 | 1471 | 1226 | 3739 |
| 6 | 125 | 1045 | 1393 | 1741 | 1532 | 1184 | 1184 | 1323 | 1672 | 1811 | 2020 | 1393 | 2577 | 1672 | 1393 | 4249 |
| 7 | 90 | 1086 | 1448 | 1810 | 1593 | 1231 | 1231 | 1376 | 1738 | 1882 | 2100 | 1448 | 2679 | 1738 | 1448 | 4416 |
| 7 | 100 | 1188 | 1584 | 1980 | 1742 | 1346 | 1346 | 1505 | 1901 | 2059 | 2297 | 1584 | 2930 | 1901 | 1584 | 4831 |
| 7 | 110 | 1274 | 1699 | 2124 | 1869 | 1444 | 1444 | 1614 | 2039 | 2209 | 2464 | 1699 | 3143 | 2039 | 1699 | 5182 |
| 7 | 125 | 1448 | 1931 | 2414 | 2124 | 1641 | 1641 | 1834 | 2317 | 2510 | 2800 | 1931 | 3572 | 2317 | 1931 | 5890 |
| 8 | 90 | 1392 | 1856 | 2320 | 2042 | 1578 | 1578 | 1763 | 2227 | 2413 | 2691 | 1856 | 3434 | 2227 | 1856 | 5661 |
| 8 | 100 | 1518 | 2024 | 2530 | 2226 | 1720 | 1720 | 1923 | 2429 | 2631 | 2935 | 2024 | 3744 | 2429 | 2024 | 6173 |
| 8 | 110 | 1623 | 2164 | 2705 | 2380 | 1839 | 1839 | 2056 | 2597 | 2813 | 3138 | 2164 | 4003 | 2597 | 2164 | 6600 |
| 8 | 125 | 1844 | 2459 | 3074 | 2705 | 2090 | 2090 | 2336 | 2951 | 3197 | 3566 | 2459 | 4549 | 2951 | 2459 | 7500 |

Thick Paint, Heavy Millscale or Heavy Pitted Rust

Soft Coating

High Profile Range

SSPC-SP 6

Tables 4233 CC

| Operating Conditions | | Consumption Rate lbs/hr of Blasting | | | | | | | | | | | | | | |
|----------------------|----------------|-------------------------------------|--------|------|-----------------------------|------|--------|------|--------------------------------|------------|--------|--------|--------------|---------|-------|------|
| | | Typical Mineral Abrasive | | | Refinery & By-Product Grits | | | | Natural or Mined Grits & Sands | | | | Manufactured | | | |
| Nozzle Size | Pressure (psi) | -25% | Median | +25% | Copper | Coal | Nickel | Iron | Olivine | Staurolite | Garnet | Silica | Zircon | Alumina | Glass | Iron |
| 6 | 90 | 789 | 1052 | 1315 | 1157 | 894 | 894 | 999 | 1262 | 1368 | 1525 | 1052 | 1946 | 1262 | 1052 | 3209 |
| 7 | 90 | 1086 | 1448 | 1810 | 1593 | 1231 | 1231 | 1376 | 1738 | 1882 | 2100 | 1448 | 2679 | 1738 | 1448 | 4416 |
| 8 | 90 | 1392 | 1856 | 2320 | 2042 | 1578 | 1578 | 1763 | 2227 | 2413 | 2691 | 1856 | 3434 | 2227 | 1856 | 5661 |
| 6 | 100 | 864 | 1152 | 1440 | 1267 | 979 | 979 | 1094 | 1382 | 1498 | 1670 | 1152 | 2131 | 1382 | 1152 | 3514 |
| 7 | 100 | 1188 | 1584 | 1980 | 1742 | 1346 | 1346 | 1505 | 1901 | 2059 | 2297 | 1584 | 2930 | 1901 | 1584 | 4831 |
| 8 | 100 | 1518 | 2024 | 2530 | 2226 | 1720 | 1720 | 1923 | 2429 | 2631 | 2935 | 2024 | 3744 | 2429 | 2024 | 6173 |
| 6 | 110 | 920 | 1226 | 1533 | 1349 | 1042 | 1042 | 1165 | 1471 | 1594 | 1778 | 1226 | 2268 | 1471 | 1226 | 3739 |
| 7 | 110 | 1274 | 1699 | 2124 | 1869 | 1444 | 1444 | 1614 | 2039 | 2209 | 2464 | 1699 | 3143 | 2039 | 1699 | 5182 |
| 8 | 110 | 1623 | 2164 | 2705 | 2380 | 1839 | 1839 | 2056 | 2597 | 2813 | 3138 | 2164 | 4003 | 2597 | 2164 | 6600 |
| 6 | 125 | 1045 | 1393 | 1741 | 1532 | 1184 | 1184 | 1323 | 1672 | 1811 | 2020 | 1393 | 2577 | 1672 | 1393 | 4249 |
| 7 | 125 | 1448 | 1931 | 2414 | 2124 | 1641 | 1641 | 1834 | 2317 | 2510 | 2800 | 1931 | 3572 | 2317 | 1931 | 5890 |
| 8 | 125 | 1844 | 2459 | 3074 | 2705 | 2090 | 2090 | 2336 | 2951 | 3197 | 3566 | 2459 | 4549 | 2951 | 2459 | 7500 |

Thick Paint, Heavy Millscale or Heavy Pitted Rust

Soft Coating

Low Profile Range

SSPC-SP 7

Tables 4241

CC

**Tables 1111 CP
Through 4241 CP**

**This Section of The Data Tables Contains Tables
from 1111 through 4241 for Consumable Abrasive
Productivity**

| Operating Conditions | | Consumption Rate lbs/ft ² of Blasting | | | | | | | | | | | | | | |
|----------------------|----------------|--|--------|------|-----------------------------|------|--------|------|--------------------------------|------------|--------|--------|--------------|---------|-------|------------|
| Nozzle Size | Pressure (psi) | Typical Mineral Abrasive | | | Refinery & By-Product Grits | | | | Natural or Mined Grits & Sands | | | | Manufactured | | | |
| | | -25% | Median | +25% | Copper | Coal | Nickel | Iron | Olivine | Staurolite | Garnet | Silica | Zircon | Alumina | Glass | Steel Iron |
| 6 | 90 | 3.0 | 4.0 | 5.1 | 4.2 | 3.2 | 3.6 | 3.6 | 4.7 | 4.9 | 5.3 | 4.0 | 6.9 | 4.7 | 3.8 | 12.1 |
| 7 | 90 | 2.9 | 3.8 | 4.8 | 4.0 | 3.1 | 3.5 | 3.5 | 4.4 | 4.6 | 5.0 | 3.8 | 6.5 | 4.4 | 3.6 | 11.5 |
| 8 | 90 | 2.7 | 3.6 | 4.5 | 3.7 | 2.9 | 3.2 | 3.2 | 4.1 | 4.3 | 4.6 | 3.6 | 6.1 | 4.1 | 3.4 | 10.7 |
| 6 | 100 | 2.6 | 3.5 | 4.4 | 3.6 | 2.8 | 3.1 | 3.1 | 4.0 | 4.2 | 4.5 | 3.5 | 5.9 | 4.0 | 3.3 | 10.5 |
| 7 | 100 | 2.5 | 3.3 | 4.1 | 3.4 | 2.6 | 3.0 | 3.0 | 3.8 | 4.0 | 4.3 | 3.3 | 5.6 | 3.8 | 3.1 | 9.9 |
| 8 | 100 | 2.3 | 3.1 | 3.8 | 3.2 | 2.5 | 2.8 | 2.8 | 3.5 | 3.7 | 4.0 | 3.1 | 5.2 | 3.5 | 2.9 | 9.2 |
| 6 | 110 | 2.2 | 3.0 | 3.7 | 3.0 | 2.4 | 2.7 | 2.7 | 3.4 | 3.5 | 3.8 | 3.0 | 5.0 | 3.4 | 2.8 | 8.9 |
| 7 | 110 | 2.1 | 2.8 | 3.5 | 2.9 | 2.2 | 2.5 | 2.5 | 3.2 | 3.4 | 3.7 | 2.8 | 4.8 | 3.2 | 2.7 | 8.4 |
| 8 | 110 | 2.0 | 2.6 | 3.3 | 2.7 | 2.1 | 2.3 | 2.3 | 3.0 | 3.1 | 3.4 | 2.6 | 4.4 | 3.0 | 2.5 | 7.8 |
| 6 | 125 | 1.8 | 2.4 | 3.0 | 2.5 | 1.9 | 2.2 | 2.2 | 2.8 | 2.9 | 3.1 | 2.4 | 4.1 | 2.8 | 2.3 | 7.2 |
| 7 | 125 | 1.7 | 2.3 | 2.9 | 2.4 | 1.8 | 2.1 | 2.1 | 2.6 | 2.8 | 3.0 | 2.3 | 3.9 | 2.6 | 2.2 | 6.9 |
| 8 | 125 | 1.6 | 2.1 | 2.7 | 2.2 | 1.7 | 1.9 | 1.9 | 2.4 | 2.6 | 2.8 | 2.1 | 3.6 | 2.4 | 2.0 | 6.4 |

Light Rust, Millscale or Loose Paint

Hard Coating

Low Profile Range

SSPC-SP 5

Tables 1111 CP

| Operating Conditions | | Consumption Rate lbs/ft² of Blasting | | | | | | | | | | | | | | |
|----------------------|----------------|--------------------------------------|--------|------|-----------------------------|------|--------|------|--------------------------------|------------|--------|--------|--------------|---------|-------|------|
| | | Typical Mineral Abrasive | | | Refinery & By-Product Grits | | | | Natural or Mined Grits & Sands | | | | Manufactured | | | |
| Nozzle Size | Pressure (psi) | -25% | Median | +25% | Copper | Coal | Nickel | Iron | Olivine | Staurolite | Garnet | Silica | Zircon | Alumina | Glass | Iron |
| 6 | 90 | 4.6 | 6.1 | 7.6 | 6.3 | 4.9 | 5.5 | 5.5 | 7.0 | 7.3 | 7.9 | 6.1 | 10.3 | 7.0 | 5.8 | 18.2 |
| 7 | 90 | 4.3 | 5.8 | 7.2 | 5.9 | 4.6 | 5.2 | 5.2 | 6.6 | 6.9 | 7.5 | 5.8 | 9.8 | 6.6 | 5.5 | 17.3 |
| 8 | 90 | 4.0 | 5.4 | 6.7 | 5.5 | 4.3 | 4.8 | 4.8 | 6.2 | 6.4 | 7.0 | 5.4 | 9.1 | 6.2 | 5.1 | 16.1 |
| 6 | 100 | 3.9 | 5.2 | 6.5 | 5.4 | 4.2 | 4.7 | 4.7 | 6.0 | 6.3 | 6.8 | 5.2 | 8.9 | 6.0 | 5.0 | 15.7 |
| 7 | 100 | 3.7 | 5.0 | 6.2 | 5.1 | 4.0 | 4.5 | 4.5 | 5.7 | 5.9 | 6.4 | 5.0 | 8.4 | 5.7 | 4.7 | 14.9 |
| 8 | 100 | 3.5 | 4.6 | 5.8 | 4.7 | 3.7 | 4.1 | 4.1 | 5.3 | 5.5 | 6.0 | 4.6 | 7.8 | 5.3 | 4.4 | 13.8 |
| 6 | 110 | 3.3 | 4.4 | 5.5 | 4.6 | 3.5 | 4.0 | 4.0 | 5.1 | 5.3 | 5.8 | 4.4 | 7.5 | 5.1 | 4.2 | 13.3 |
| 7 | 110 | 3.2 | 4.2 | 5.3 | 4.3 | 3.4 | 3.8 | 3.8 | 4.8 | 5.1 | 5.5 | 4.2 | 7.2 | 4.8 | 4.0 | 12.6 |
| 8 | 110 | 2.9 | 3.9 | 4.9 | 4.0 | 3.1 | 3.5 | 3.5 | 4.5 | 4.7 | 5.1 | 3.9 | 6.6 | 4.5 | 3.7 | 11.7 |
| 6 | 125 | 2.7 | 3.6 | 4.5 | 3.7 | 2.9 | 3.3 | 3.3 | 4.2 | 4.3 | 4.7 | 3.6 | 6.2 | 4.2 | 3.4 | 10.9 |
| 7 | 125 | 2.6 | 3.4 | 4.3 | 3.5 | 2.8 | 3.1 | 3.1 | 4.0 | 4.1 | 4.5 | 3.4 | 5.9 | 4.0 | 3.3 | 10.3 |
| 8 | 125 | 2.4 | 3.2 | 4.0 | 3.3 | 2.5 | 2.9 | 2.9 | 3.7 | 3.8 | 4.1 | 3.2 | 5.4 | 3.7 | 3.0 | 9.6 |

Light Rust, Millscale or Loose Paint

Hard Coating

Medium Profile Range

SSPC-SP 5

Tables 1112 CP

| Operating Conditions | | Consumption Rate lbs/ft² of Blasting | | | | | | | | | | | | | | |
|----------------------|----------------|--------------------------------------|--------|------|-----------------------------|------|--------|------|--------------------------------|------------|--------|--------|--------------|---------|-------|------|
| | | Typical Mineral Abrasive | | | Refinery & By-Product Grits | | | | Natural or Mined Grits & Sands | | | | Manufactured | | | |
| Nozzle Size | Pressure (psi) | -25% | Median | +25% | Copper | Coal | Nickel | Iron | Olivine | Staurolite | Garnet | Silica | Zircon | Alumina | Glass | |
| 6 | 90 | 9.1 | 12.1 | 15.1 | 12.5 | 9.7 | 10.9 | 10.9 | 13.9 | 14.5 | 15.7 | 12.1 | 20.6 | 13.9 | 11.5 | 36.3 |
| 7 | 90 | 8.6 | 11.5 | 14.4 | 11.8 | 9.2 | 10.3 | 10.3 | 13.2 | 13.8 | 14.9 | 11.5 | 19.5 | 13.2 | 10.9 | 34.5 |
| 8 | 90 | 8.0 | 10.7 | 13.4 | 11.1 | 8.6 | 9.7 | 9.7 | 12.3 | 12.9 | 13.9 | 10.7 | 18.2 | 12.3 | 10.2 | 32.2 |
| 6 | 100 | 7.9 | 10.5 | 13.1 | 10.8 | 8.4 | 9.4 | 9.4 | 12.0 | 12.6 | 13.6 | 10.5 | 17.8 | 12.0 | 9.9 | 31.4 |
| 7 | 100 | 7.4 | 9.9 | 12.4 | 10.2 | 7.9 | 8.9 | 8.9 | 11.4 | 11.9 | 12.9 | 9.9 | 16.8 | 11.4 | 9.4 | 29.7 |
| 8 | 100 | 6.9 | 9.2 | 11.5 | 9.5 | 7.4 | 8.3 | 8.3 | 10.6 | 11.0 | 12.0 | 9.2 | 15.6 | 10.6 | 8.7 | 27.6 |
| 6 | 110 | 6.7 | 8.9 | 11.1 | 9.2 | 7.1 | 8.0 | 8.0 | 10.2 | 10.7 | 11.5 | 8.9 | 15.1 | 10.2 | 8.4 | 26.7 |
| 7 | 110 | 6.3 | 8.4 | 10.5 | 8.7 | 6.7 | 7.6 | 7.6 | 9.7 | 10.1 | 10.9 | 8.4 | 14.3 | 9.7 | 8.0 | 25.2 |
| 8 | 110 | 5.9 | 7.8 | 9.8 | 8.0 | 6.2 | 7.0 | 7.0 | 9.0 | 9.4 | 10.2 | 7.8 | 13.3 | 9.0 | 7.4 | 23.4 |
| 6 | 125 | 5.4 | 7.2 | 9.0 | 7.4 | 5.8 | 6.5 | 6.5 | 8.3 | 8.7 | 9.4 | 7.2 | 12.3 | 8.3 | 6.9 | 21.7 |
| 7 | 125 | 5.2 | 6.9 | 8.6 | 7.1 | 5.5 | 6.2 | 6.2 | 7.9 | 8.3 | 9.0 | 6.9 | 11.7 | 7.9 | 6.6 | 20.7 |
| 8 | 125 | 4.8 | 6.4 | 8.0 | 6.6 | 5.1 | 5.7 | 5.7 | 7.3 | 7.6 | 8.3 | 6.4 | 10.8 | 7.3 | 6.1 | 19.1 |

Light Rust, Millscale or Loose Paint

Hard Coating

High Profile Range

SSPC-SP 5

Tables 1113 CP

| Operating Conditions | | Consumption Rate lbs/ft² of Blasting | | | | | | | | | | | | | | |
|----------------------|----------------|--------------------------------------|--------|------|-----------------------------|------|--------|------|--------------------------------|------------|--------|--------|--------------|---------|-------|------------|
| | | Typical Mineral Abrasive | | | Refinery & By-Product Grits | | | | Natural or Mined Grits & Sands | | | | Manufactured | | | Steel Iron |
| Nozzle Size | Pressure (psi) | -25% | Median | +25% | Copper | Coal | Nickel | Iron | Olivine | Staurolite | Garnet | Silica | Zircon | Alumina | Glass | |
| 6 | 90 | 2.8 | 3.7 | 4.6 | 3.8 | 3.0 | 3.3 | 3.3 | 4.3 | 4.5 | 4.8 | 3.7 | 6.3 | 4.3 | 3.5 | 11.2 |
| 7 | 90 | 2.6 | 3.5 | 4.4 | 3.6 | 2.8 | 3.1 | 3.1 | 4.0 | 4.2 | 4.5 | 3.5 | 5.9 | 4.0 | 3.3 | 10.5 |
| 8 | 90 | 2.5 | 3.3 | 4.1 | 3.4 | 2.6 | 2.9 | 2.9 | 3.8 | 3.9 | 4.3 | 3.3 | 5.6 | 3.8 | 3.1 | 9.8 |
| 6 | 100 | 2.4 | 3.2 | 4.0 | 3.3 | 2.6 | 2.9 | 2.9 | 3.7 | 3.8 | 4.2 | 3.2 | 5.4 | 3.7 | 3.0 | 9.6 |
| 7 | 100 | 2.3 | 3.0 | 3.8 | 3.1 | 2.4 | 2.7 | 2.7 | 3.5 | 3.6 | 3.9 | 3.0 | 5.1 | 3.5 | 2.9 | 9.1 |
| 8 | 100 | 2.1 | 2.8 | 3.5 | 2.9 | 2.2 | 2.5 | 2.5 | 3.2 | 3.4 | 3.7 | 2.8 | 4.8 | 3.2 | 2.7 | 8.4 |
| 6 | 110 | 2.0 | 2.7 | 3.4 | 2.8 | 2.2 | 2.4 | 2.4 | 3.1 | 3.2 | 3.5 | 2.7 | 4.6 | 3.1 | 2.6 | 8.1 |
| 7 | 110 | 1.9 | 2.6 | 3.2 | 2.7 | 2.1 | 2.3 | 2.3 | 3.0 | 3.1 | 3.3 | 2.6 | 4.4 | 3.0 | 2.4 | 7.7 |
| 8 | 110 | 1.8 | 2.4 | 3.0 | 2.5 | 1.9 | 2.1 | 2.1 | 2.7 | 2.9 | 3.1 | 2.4 | 4.1 | 2.7 | 2.3 | 7.2 |
| 6 | 125 | 1.7 | 2.2 | 2.8 | 2.3 | 1.8 | 2.0 | 2.0 | 2.5 | 2.6 | 2.9 | 2.2 | 3.8 | 2.5 | 2.1 | 6.6 |
| 7 | 125 | 1.6 | 2.1 | 2.6 | 2.2 | 1.7 | 1.9 | 1.9 | 2.4 | 2.5 | 2.7 | 2.1 | 3.6 | 2.4 | 2.0 | 6.3 |
| 8 | 125 | 1.5 | 2.0 | 2.4 | 2.0 | 1.6 | 1.8 | 1.8 | 2.2 | 2.3 | 2.5 | 2.0 | 3.3 | 2.2 | 1.9 | 5.9 |

Light Rust, Millscale or Loose Paint

Hard Coating

Low Profile Range

SSPC-SP 10

Tables 1121 CP

| Operating Conditions | | Consumption Rate lbs/ft² of Blasting | | | | | | | | | | | | | | |
|----------------------|----------------|--------------------------------------|--------|------|-----------------------------|------|--------|------|--------------------------------|------------|--------|--------|--------------|---------|-------|------------|
| | | Typical Mineral Abrasive | | | Refinery & By-Product Grits | | | | Natural or Mined Grits & Sands | | | | Manufactured | | | Steel Iron |
| Nozzle Size | Pressure (psi) | -25% | Median | +25% | Copper | Coal | Nickel | Iron | Olivine | Staurolite | Garnet | Silica | Zircon | Alumina | Glass | |
| 6 | 90 | 4.2 | 5.6 | 7.0 | 5.7 | 4.5 | 5.0 | 5.0 | 6.4 | 6.7 | 7.2 | 5.6 | 9.5 | 6.4 | 5.3 | 16.7 |
| 7 | 90 | 3.9 | 5.2 | 6.6 | 5.4 | 4.2 | 4.7 | 4.7 | 6.0 | 6.3 | 6.8 | 5.2 | 8.9 | 6.0 | 5.0 | 15.7 |
| 8 | 90 | 3.7 | 4.9 | 6.1 | 5.1 | 3.9 | 4.4 | 4.4 | 5.6 | 5.9 | 6.4 | 4.9 | 8.3 | 5.6 | 4.7 | 14.7 |
| 6 | 100 | 3.6 | 4.8 | 6.0 | 4.9 | 3.8 | 4.3 | 4.3 | 5.5 | 5.8 | 6.2 | 4.8 | 8.2 | 5.5 | 4.6 | 14.4 |
| 7 | 100 | 3.4 | 4.5 | 5.7 | 4.7 | 3.6 | 4.1 | 4.1 | 5.2 | 5.4 | 5.9 | 4.5 | 7.7 | 5.2 | 4.3 | 13.6 |
| 8 | 100 | 3.2 | 4.2 | 5.3 | 4.3 | 3.4 | 3.8 | 3.8 | 4.8 | 5.1 | 5.5 | 4.2 | 7.2 | 4.8 | 4.0 | 12.7 |
| 6 | 110 | 3.0 | 4.1 | 5.1 | 4.2 | 3.2 | 3.7 | 3.7 | 4.7 | 4.9 | 5.3 | 4.1 | 6.9 | 4.7 | 3.9 | 12.2 |
| 7 | 110 | 2.9 | 3.9 | 4.8 | 4.0 | 3.1 | 3.5 | 3.5 | 4.4 | 4.6 | 5.0 | 3.9 | 6.6 | 4.4 | 3.7 | 11.6 |
| 8 | 110 | 2.7 | 3.6 | 4.5 | 3.7 | 2.9 | 3.2 | 3.2 | 4.1 | 4.3 | 4.7 | 3.6 | 6.1 | 4.1 | 3.4 | 10.7 |
| 6 | 125 | 2.5 | 3.3 | 4.1 | 3.4 | 2.7 | 3.0 | 3.0 | 3.8 | 4.0 | 4.3 | 3.3 | 5.6 | 3.8 | 3.2 | 10.0 |
| 7 | 125 | 2.4 | 3.2 | 3.9 | 3.2 | 2.5 | 2.8 | 2.8 | 3.6 | 3.8 | 4.1 | 3.2 | 5.4 | 3.6 | 3.0 | 9.5 |
| 8 | 125 | 2.2 | 2.9 | 3.7 | 3.0 | 2.3 | 2.6 | 2.6 | 3.4 | 3.5 | 3.8 | 2.9 | 5.0 | 3.4 | 2.8 | 8.8 |

Light Rust, Millscale or Loose Paint

Hard Coating

Medium Profile Range

SSPC-SP 10

Tables 1122 CP

| Operating Conditions | | Consumption Rate lbs/ft² of Blasting | | | | | | | | | | | | | | |
|----------------------|----------------|--------------------------------------|--------|------|-----------------------------|------|--------|------|--------------------------------|------------|--------|--------|--------------|---------|-------|------|
| | | Typical Mineral Abrasive | | | Refinery & By-Product Grits | | | | Natural or Mined Grits & Sands | | | | Manufactured | | | |
| Nozzle Size | Pressure (psi) | -25% | Median | +25% | Copper | Coal | Nickel | Iron | Olivine | Staurolite | Garnet | Silica | Zircon | Alumina | Glass | Iron |
| 6 | 90 | 8.4 | 11.2 | 14.0 | 11.5 | 9.0 | 10.1 | 10.1 | 12.9 | 13.4 | 14.5 | 11.2 | 19.0 | 12.9 | 10.6 | 33.6 |
| 7 | 90 | 7.9 | 10.5 | 13.1 | 10.8 | 8.4 | 9.4 | 9.4 | 12.1 | 12.6 | 13.6 | 10.5 | 17.8 | 12.1 | 10.0 | 31.5 |
| 8 | 90 | 7.4 | 9.8 | 12.3 | 10.1 | 7.9 | 8.8 | 8.8 | 11.3 | 11.8 | 12.8 | 9.8 | 16.7 | 11.3 | 9.3 | 29.5 |
| 6 | 100 | 7.2 | 9.6 | 12.0 | 9.9 | 7.7 | 8.6 | 8.6 | 11.0 | 11.5 | 12.5 | 9.6 | 16.3 | 11.0 | 9.1 | 28.8 |
| 7 | 100 | 6.8 | 9.1 | 11.3 | 9.3 | 7.2 | 8.1 | 8.1 | 10.4 | 10.9 | 11.8 | 9.1 | 15.4 | 10.4 | 8.6 | 27.2 |
| 8 | 100 | 6.3 | 8.4 | 10.5 | 8.7 | 6.7 | 7.6 | 7.6 | 9.7 | 10.1 | 11.0 | 8.4 | 14.3 | 9.7 | 8.0 | 25.3 |
| 6 | 110 | 6.1 | 8.1 | 10.1 | 8.4 | 6.5 | 7.3 | 7.3 | 9.3 | 9.7 | 10.6 | 8.1 | 13.8 | 9.3 | 7.7 | 24.4 |
| 7 | 110 | 5.8 | 7.7 | 9.7 | 8.0 | 6.2 | 7.0 | 7.0 | 8.9 | 9.3 | 10.0 | 7.7 | 13.1 | 8.9 | 7.3 | 23.2 |
| 8 | 110 | 5.4 | 7.2 | 9.0 | 7.4 | 5.7 | 6.4 | 6.4 | 8.2 | 8.6 | 9.3 | 7.2 | 12.2 | 8.2 | 6.8 | 21.5 |
| 6 | 125 | 5.0 | 6.6 | 8.3 | 6.8 | 5.3 | 6.0 | 6.0 | 7.6 | 8.0 | 8.6 | 6.6 | 11.3 | 7.6 | 6.3 | 19.9 |
| 7 | 125 | 4.7 | 6.3 | 7.9 | 6.5 | 5.0 | 5.7 | 5.7 | 7.3 | 7.6 | 8.2 | 6.3 | 10.7 | 7.3 | 6.0 | 18.9 |
| 8 | 125 | 4.4 | 5.9 | 7.3 | 6.0 | 4.7 | 5.3 | 5.3 | 6.7 | 7.0 | 7.6 | 5.9 | 10.0 | 6.7 | 5.6 | 17.6 |

Light Rust, Millscale or Loose Paint

Hard Coating

High Profile Range

SSPC-SP 10

Tables 1123 CP

| Operating Conditions | | Consumption Rate lbs/ft² of Blasting | | | | | | | | | | | | | | |
|----------------------|----------------|--------------------------------------|--------|------|-----------------------------|------|--------|------|--------------------------------|------------|--------|--------|--------------|---------|-------|------|
| | | Typical Mineral Abrasive | | | Refinery & By-Product Grits | | | | Natural or Mined Grits & Sands | | | | Manufactured | | | |
| Nozzle Size | Pressure (psi) | -25% | Median | +25% | Copper | Coal | Nickel | Iron | Olivine | Staurolite | Garnet | Silica | Zircon | Alumina | Glass | Iron |
| 6 | 90 | 1.3 | 1.8 | 2.2 | 1.8 | 1.4 | 1.6 | 1.6 | 2.1 | 2.1 | 2.3 | 1.8 | 3.0 | 2.1 | 1.7 | 5.3 |
| 7 | 90 | 1.2 | 1.6 | 2.0 | 1.7 | 1.3 | 1.5 | 1.5 | 1.9 | 2.0 | 2.1 | 1.6 | 2.8 | 1.9 | 1.6 | 4.9 |
| 8 | 90 | 1.2 | 1.6 | 2.0 | 1.6 | 1.3 | 1.4 | 1.4 | 1.8 | 1.9 | 2.0 | 1.6 | 2.7 | 1.8 | 1.5 | 4.7 |
| 6 | 100 | 1.2 | 1.5 | 1.9 | 1.6 | 1.2 | 1.4 | 1.4 | 1.8 | 1.8 | 2.0 | 1.5 | 2.6 | 1.8 | 1.5 | 4.6 |
| 7 | 100 | 1.1 | 1.4 | 1.8 | 1.5 | 1.1 | 1.3 | 1.3 | 1.6 | 1.7 | 1.8 | 1.4 | 2.4 | 1.6 | 1.3 | 4.2 |
| 8 | 100 | 1.0 | 1.3 | 1.7 | 1.4 | 1.1 | 1.2 | 1.2 | 1.6 | 1.6 | 1.8 | 1.3 | 2.3 | 1.6 | 1.3 | 4.0 |
| 6 | 110 | 1.0 | 1.3 | 1.6 | 1.3 | 1.0 | 1.2 | 1.2 | 1.5 | 1.6 | 1.7 | 1.3 | 2.2 | 1.5 | 1.2 | 3.9 |
| 7 | 110 | 0.9 | 1.2 | 1.5 | 1.2 | 1.0 | 1.1 | 1.1 | 1.4 | 1.4 | 1.6 | 1.2 | 2.0 | 1.4 | 1.1 | 3.6 |
| 8 | 110 | 0.9 | 1.1 | 1.4 | 1.2 | 0.9 | 1.0 | 1.0 | 1.3 | 1.4 | 1.5 | 1.1 | 1.9 | 1.3 | 1.1 | 3.4 |
| 6 | 125 | 0.8 | 1.1 | 1.3 | 1.1 | 0.8 | 1.0 | 1.0 | 1.2 | 1.3 | 1.4 | 1.1 | 1.8 | 1.2 | 1.0 | 3.2 |
| 7 | 125 | 0.7 | 1.0 | 1.2 | 1.0 | 0.8 | 0.9 | 0.9 | 1.1 | 1.2 | 1.3 | 1.0 | 1.7 | 1.1 | 0.9 | 2.9 |
| 8 | 125 | 0.7 | 0.9 | 1.2 | 1.0 | 0.7 | 0.8 | 0.8 | 1.1 | 1.1 | 1.2 | 0.9 | 1.6 | 1.1 | 0.9 | 2.8 |

Light Rust, Millscale or Loose Paint

Hard Coating

Low Profile Range

SSPC-SP 6

Tables 1131 CP

| Operating Conditions | | Consumption Rate lbs/ft² of Blasting | | | | | | | | | | | | | | |
|----------------------|----------------|--------------------------------------|--------|------|-----------------------------|------|--------|------|--------------------------------|------------|--------|--------|--------------|---------|-------|------------|
| | | Typical Mineral Abrasive | | | Refinery & By-Product Grits | | | | Natural or Mined Grits & Sands | | | | Manufactured | | | Steel Iron |
| Nozzle Size | Pressure (psi) | -25% | Median | +25% | Copper | Coal | Nickel | Iron | Olivine | Staurolite | Garnet | Silica | Zircon | Alumina | Glass | |
| 6 | 90 | 2.0 | 2.7 | 3.3 | 2.8 | 2.1 | 2.4 | 2.4 | 3.1 | 3.2 | 3.5 | 2.7 | 4.6 | 3.1 | 2.5 | 8.0 |
| 7 | 90 | 1.8 | 2.5 | 3.1 | 2.5 | 2.0 | 2.2 | 2.2 | 2.8 | 2.9 | 3.2 | 2.5 | 4.2 | 2.8 | 2.3 | 7.4 |
| 8 | 90 | 1.8 | 2.4 | 2.9 | 2.4 | 1.9 | 2.1 | 2.1 | 2.7 | 2.8 | 3.1 | 2.4 | 4.0 | 2.7 | 2.2 | 7.1 |
| 6 | 100 | 1.7 | 2.3 | 2.9 | 2.4 | 1.8 | 2.1 | 2.1 | 2.6 | 2.8 | 3.0 | 2.3 | 3.9 | 2.6 | 2.2 | 6.9 |
| 7 | 100 | 1.6 | 2.1 | 2.6 | 2.2 | 1.7 | 1.9 | 1.9 | 2.4 | 2.5 | 2.7 | 2.1 | 3.6 | 2.4 | 2.0 | 6.3 |
| 8 | 100 | 1.5 | 2.0 | 2.5 | 2.1 | 1.6 | 1.8 | 1.8 | 2.3 | 2.4 | 2.6 | 2.0 | 3.4 | 2.3 | 1.9 | 6.1 |
| 6 | 110 | 1.5 | 1.9 | 2.4 | 2.0 | 1.6 | 1.8 | 1.8 | 2.2 | 2.3 | 2.5 | 1.9 | 3.3 | 2.2 | 1.8 | 5.8 |
| 7 | 110 | 1.4 | 1.8 | 2.3 | 1.9 | 1.4 | 1.6 | 1.6 | 2.1 | 2.2 | 2.3 | 1.8 | 3.1 | 2.1 | 1.7 | 5.4 |
| 8 | 110 | 1.3 | 1.7 | 2.2 | 1.8 | 1.4 | 1.5 | 1.5 | 2.0 | 2.1 | 2.2 | 1.7 | 2.9 | 2.0 | 1.6 | 5.2 |
| 6 | 125 | 1.2 | 1.6 | 2.0 | 1.6 | 1.3 | 1.4 | 1.4 | 1.8 | 1.9 | 2.1 | 1.6 | 2.7 | 1.8 | 1.5 | 4.8 |
| 7 | 125 | 1.1 | 1.5 | 1.8 | 1.5 | 1.2 | 1.3 | 1.3 | 1.7 | 1.8 | 1.9 | 1.5 | 2.5 | 1.7 | 1.4 | 4.4 |
| 8 | 125 | 1.1 | 1.4 | 1.8 | 1.4 | 1.1 | 1.3 | 1.3 | 1.6 | 1.7 | 1.8 | 1.4 | 2.4 | 1.6 | 1.3 | 4.2 |

Light Rust, Millscale or Loose Paint

Hard Coating

Medium Profile Range

SSPC-SP 6

Tables 1132 CP

| Operating Conditions | | Consumption Rate lbs/ft² of Blasting | | | | | | | | | | | | | | |
|----------------------|----------------|--------------------------------------|--------|------|-----------------------------|------|--------|------|--------------------------------|------------|--------|--------|--------------|---------|-------|------|
| | | Typical Mineral Abrasive | | | Refinery & By-Product Grits | | | | Natural or Mined Grits & Sands | | | | Manufactured | | | |
| Nozzle Size | Pressure (psi) | -25% | Median | +25% | Copper | Coal | Nickel | Iron | Olivine | Staurolite | Garnet | Silica | Zircon | Alumina | Glass | |
| 6 | 90 | 4.0 | 5.3 | 6.7 | 5.5 | 4.3 | 4.8 | 4.8 | 6.1 | 6.4 | 6.9 | 5.3 | 9.1 | 6.1 | 5.1 | 16.0 |
| 7 | 90 | 3.7 | 4.9 | 6.1 | 5.1 | 3.9 | 4.4 | 4.4 | 5.6 | 5.9 | 6.4 | 4.9 | 8.3 | 5.6 | 4.7 | 14.7 |
| 8 | 90 | 3.5 | 4.7 | 5.9 | 4.9 | 3.8 | 4.2 | 4.2 | 5.4 | 5.7 | 6.1 | 4.7 | 8.0 | 5.4 | 4.5 | 14.1 |
| 6 | 100 | 3.5 | 4.6 | 5.8 | 4.7 | 3.7 | 4.1 | 4.1 | 5.3 | 5.5 | 6.0 | 4.6 | 7.8 | 5.3 | 4.4 | 13.8 |
| 7 | 100 | 3.2 | 4.2 | 5.3 | 4.4 | 3.4 | 3.8 | 3.8 | 4.9 | 5.1 | 5.5 | 4.2 | 7.2 | 4.9 | 4.0 | 12.7 |
| 8 | 100 | 3.0 | 4.0 | 5.1 | 4.2 | 3.2 | 3.6 | 3.6 | 4.7 | 4.9 | 5.3 | 4.0 | 6.9 | 4.7 | 3.8 | 12.1 |
| 6 | 110 | 2.9 | 3.9 | 4.9 | 4.0 | 3.1 | 3.5 | 3.5 | 4.5 | 4.7 | 5.1 | 3.9 | 6.6 | 4.5 | 3.7 | 11.7 |
| 7 | 110 | 2.7 | 3.6 | 4.5 | 3.7 | 2.9 | 3.2 | 3.2 | 4.1 | 4.3 | 4.7 | 3.6 | 6.1 | 4.1 | 3.4 | 10.8 |
| 8 | 110 | 2.6 | 3.4 | 4.3 | 3.5 | 2.8 | 3.1 | 3.1 | 4.0 | 4.1 | 4.5 | 3.4 | 5.8 | 4.0 | 3.3 | 10.3 |
| 6 | 125 | 2.4 | 3.2 | 4.0 | 3.3 | 2.5 | 2.9 | 2.9 | 3.7 | 3.8 | 4.1 | 3.2 | 5.4 | 3.7 | 3.0 | 9.5 |
| 7 | 125 | 2.2 | 2.9 | 3.7 | 3.0 | 2.3 | 2.6 | 2.6 | 3.4 | 3.5 | 3.8 | 2.9 | 5.0 | 3.4 | 2.8 | 8.8 |
| 8 | 125 | 2.1 | 2.8 | 3.5 | 2.9 | 2.2 | 2.5 | 2.5 | 3.2 | 3.4 | 3.6 | 2.8 | 4.8 | 3.2 | 2.7 | 8.4 |

Light Rust, Millscale or Loose Paint

Hard Coating

High Profile Range

SSPC-SP 6

Tables 1133 CP

| Operating Conditions | | Consumption Rate lbs/ft² of Blasting | | | | | | | | | | | | | | |
|----------------------|----------------|--------------------------------------|--------|------|-----------------------------|------|--------|------|--------------------------------|------------|--------|--------|--------------|---------|-------|------|
| | | Typical Mineral Abrasive | | | Refinery & By-Product Grits | | | | Natural or Mined Grits & Sands | | | | Manufactured | | | |
| Nozzle Size | Pressure (psi) | -25% | Median | +25% | Copper | Coal | Nickel | Iron | Olivine | Staurolite | Garnet | Silica | Zircon | Alumina | Glass | Iron |
| 6 | 90 | 1.0 | 1.3 | 1.7 | 1.4 | 1.1 | 1.2 | 1.2 | 1.5 | 1.6 | 1.7 | 1.3 | 2.3 | 1.5 | 1.3 | 4.0 |
| 7 | 90 | 0.9 | 1.2 | 1.5 | 1.3 | 1.0 | 1.1 | 1.1 | 1.4 | 1.5 | 1.6 | 1.2 | 2.1 | 1.4 | 1.2 | 3.7 |
| 8 | 90 | 0.9 | 1.2 | 1.5 | 1.2 | 0.9 | 1.1 | 1.1 | 1.4 | 1.4 | 1.5 | 1.2 | 2.0 | 1.4 | 1.1 | 3.5 |
| 6 | 100 | 0.9 | 1.2 | 1.4 | 1.2 | 0.9 | 1.0 | 1.0 | 1.3 | 1.4 | 1.5 | 1.2 | 2.0 | 1.3 | 1.1 | 3.5 |
| 7 | 100 | 0.8 | 1.1 | 1.3 | 1.1 | 0.8 | 1.0 | 1.0 | 1.2 | 1.3 | 1.4 | 1.1 | 1.8 | 1.2 | 1.0 | 3.2 |
| 8 | 100 | 0.8 | 1.0 | 1.3 | 1.0 | 0.8 | 0.9 | 0.9 | 1.2 | 1.2 | 1.3 | 1.0 | 1.7 | 1.2 | 1.0 | 3.0 |
| 6 | 110 | 0.7 | 1.0 | 1.2 | 1.0 | 0.8 | 0.9 | 0.9 | 1.1 | 1.2 | 1.3 | 1.0 | 1.7 | 1.1 | 0.9 | 2.9 |
| 7 | 110 | 0.7 | 0.9 | 1.1 | 0.9 | 0.7 | 0.8 | 0.8 | 1.0 | 1.1 | 1.2 | 0.9 | 1.5 | 1.0 | 0.9 | 2.7 |
| 8 | 110 | 0.6 | 0.9 | 1.1 | 0.9 | 0.7 | 0.8 | 0.8 | 1.0 | 1.0 | 1.1 | 0.9 | 1.5 | 1.0 | 0.8 | 2.6 |
| 6 | 125 | 0.6 | 0.8 | 1.0 | 0.8 | 0.6 | 0.7 | 0.7 | 0.9 | 1.0 | 1.0 | 0.8 | 1.4 | 0.9 | 0.8 | 2.4 |
| 7 | 125 | 0.6 | 0.7 | 0.9 | 0.8 | 0.6 | 0.7 | 0.7 | 0.8 | 0.9 | 1.0 | 0.7 | 1.2 | 0.8 | 0.7 | 2.2 |
| 8 | 125 | 0.5 | 0.7 | 0.9 | 0.7 | 0.6 | 0.6 | 0.6 | 0.8 | 0.8 | 0.9 | 0.7 | 1.2 | 0.8 | 0.7 | 2.1 |

Light Rust, Millscale or Loose Paint

Hard Coating

Low Profile Range

SSPC-SP 7

Tables 1141 CP

| Operating Conditions | | Consumption Rate lbs/ft² of Blasting | | | | | | | | | | | | | | |
|----------------------|----------------|--------------------------------------|--------|------|-----------------------------|------|--------|------|--------------------------------|------------|--------|--------|--------------|---------|-------|-----|
| | | Typical Mineral Abrasive | | | Refinery & By-Product Grits | | | | Natural or Mined Grits & Sands | | | | Manufactured | | | |
| Nozzle Size | Pressure (psi) | -25% | Median | +25% | Copper | Coal | Nickel | Iron | Olivine | Staurolite | Garnet | Silica | Zircon | Alumina | Glass | |
| 6 | 90 | 2.0 | 2.7 | 3.4 | 2.8 | 2.2 | 2.4 | 2.4 | 3.1 | 3.2 | 3.5 | 2.7 | 4.6 | 3.1 | 2.6 | 8.1 |
| 7 | 90 | 1.9 | 2.6 | 3.2 | 2.6 | 2.0 | 2.3 | 2.3 | 2.9 | 3.1 | 3.3 | 2.6 | 4.3 | 2.9 | 2.4 | 7.7 |
| 8 | 90 | 1.8 | 2.4 | 3.0 | 2.5 | 1.9 | 2.1 | 2.1 | 2.7 | 2.9 | 3.1 | 2.4 | 4.1 | 2.7 | 2.3 | 7.1 |
| 6 | 100 | 1.7 | 2.3 | 2.9 | 2.4 | 1.9 | 2.1 | 2.1 | 2.7 | 2.8 | 3.0 | 2.3 | 4.0 | 2.7 | 2.2 | 7.0 |
| 7 | 100 | 1.7 | 2.2 | 2.8 | 2.3 | 1.8 | 2.0 | 2.0 | 2.5 | 2.6 | 2.9 | 2.2 | 3.7 | 2.5 | 2.1 | 6.6 |
| 8 | 100 | 1.5 | 2.0 | 2.6 | 2.1 | 1.6 | 1.8 | 1.8 | 2.4 | 2.5 | 2.7 | 2.0 | 3.5 | 2.4 | 1.9 | 6.1 |
| 6 | 110 | 1.5 | 2.0 | 2.5 | 2.0 | 1.6 | 1.8 | 1.8 | 2.3 | 2.4 | 2.6 | 2.0 | 3.3 | 2.3 | 1.9 | 5.9 |
| 7 | 110 | 1.4 | 1.9 | 2.3 | 1.9 | 1.5 | 1.7 | 1.7 | 2.2 | 2.2 | 2.4 | 1.9 | 3.2 | 2.2 | 1.8 | 5.6 |
| 8 | 110 | 1.3 | 1.7 | 2.2 | 1.8 | 1.4 | 1.6 | 1.6 | 2.0 | 2.1 | 2.3 | 1.7 | 3.0 | 2.0 | 1.6 | 5.2 |
| 6 | 125 | 1.2 | 1.6 | 2.0 | 1.7 | 1.3 | 1.4 | 1.4 | 1.8 | 1.9 | 2.1 | 1.6 | 2.7 | 1.8 | 1.5 | 4.8 |
| 7 | 125 | 1.1 | 1.5 | 1.9 | 1.6 | 1.2 | 1.4 | 1.4 | 1.8 | 1.8 | 2.0 | 1.5 | 2.6 | 1.8 | 1.5 | 4.6 |
| 8 | 125 | 1.1 | 1.4 | 1.8 | 1.5 | 1.1 | 1.3 | 1.3 | 1.6 | 1.7 | 1.8 | 1.4 | 2.4 | 1.6 | 1.3 | 4.2 |

Light Rust, Millscale or Loose Paint

Soft Coating

Low Profile Range

SSPC-SP 5

Tables 1211 CP

| Operating Conditions | | Consumption Rate lbs/ft² of Blasting | | | | | | | | | | | | | | |
|----------------------|----------------|--------------------------------------|--------|------|-----------------------------|------|--------|------|--------------------------------|------------|--------|--------|--------------|---------|-------|------|
| | | Typical Mineral Abrasive | | | Refinery & By-Product Grits | | | | Natural or Mined Grits & Sands | | | | Manufactured | | | |
| Nozzle Size | Pressure (psi) | -25% | Median | +25% | Copper | Coal | Nickel | Iron | Olivine | Staurolite | Garnet | Silica | Zircon | Alumina | Glass | |
| 6 | 90 | 3.0 | 4.0 | 5.1 | 4.2 | 3.2 | 3.6 | 3.6 | 4.7 | 4.9 | 5.3 | 4.0 | 6.9 | 4.7 | 3.8 | 12.1 |
| 7 | 90 | 2.9 | 3.8 | 4.8 | 4.0 | 3.1 | 3.5 | 3.5 | 4.4 | 4.6 | 5.0 | 3.8 | 6.5 | 4.4 | 3.6 | 11.5 |
| 8 | 90 | 2.7 | 3.6 | 4.5 | 3.7 | 2.9 | 3.2 | 3.2 | 4.1 | 4.3 | 4.6 | 3.6 | 6.1 | 4.1 | 3.4 | 10.7 |
| 6 | 100 | 2.6 | 3.5 | 4.4 | 3.6 | 2.8 | 3.1 | 3.1 | 4.0 | 4.2 | 4.5 | 3.5 | 5.9 | 4.0 | 3.3 | 10.5 |
| 7 | 100 | 2.5 | 3.3 | 4.1 | 3.4 | 2.6 | 3.0 | 3.0 | 3.8 | 4.0 | 4.3 | 3.3 | 5.6 | 3.8 | 3.1 | 9.9 |
| 8 | 100 | 2.3 | 3.1 | 3.8 | 3.2 | 2.5 | 2.8 | 2.8 | 3.5 | 3.7 | 4.0 | 3.1 | 5.2 | 3.5 | 2.9 | 9.2 |
| 6 | 110 | 2.2 | 3.0 | 3.7 | 3.0 | 2.4 | 2.7 | 2.7 | 3.4 | 3.5 | 3.8 | 3.0 | 5.0 | 3.4 | 2.8 | 8.9 |
| 7 | 110 | 2.1 | 2.8 | 3.5 | 2.9 | 2.2 | 2.5 | 2.5 | 3.2 | 3.4 | 3.7 | 2.8 | 4.8 | 3.2 | 2.7 | 8.4 |
| 8 | 110 | 2.0 | 2.6 | 3.3 | 2.7 | 2.1 | 2.3 | 2.3 | 3.0 | 3.1 | 3.4 | 2.6 | 4.4 | 3.0 | 2.5 | 7.8 |
| 6 | 125 | 1.8 | 2.4 | 3.0 | 2.5 | 1.9 | 2.2 | 2.2 | 2.8 | 2.9 | 3.1 | 2.4 | 4.1 | 2.8 | 2.3 | 7.2 |
| 7 | 125 | 1.7 | 2.3 | 2.9 | 2.4 | 1.8 | 2.1 | 2.1 | 2.6 | 2.8 | 3.0 | 2.3 | 3.9 | 2.6 | 2.2 | 6.9 |
| 8 | 125 | 1.6 | 2.1 | 2.7 | 2.2 | 1.7 | 1.9 | 1.9 | 2.4 | 2.6 | 2.8 | 2.1 | 3.6 | 2.4 | 2.0 | 6.4 |

Light Rust, Millscale or Loose Paint

Soft Coating

Medium Profile Range

SSPC-SP 5

Tables 1212 CP

| Operating Conditions | | Consumption Rate lbs/ft² of Blasting | | | | | | | | | | | | | | |
|----------------------|----------------|--------------------------------------|--------|------|-----------------------------|------|--------|------|--------------------------------|------------|--------|--------|--------------|---------|-------|------|
| | | Typical Mineral Abrasive | | | Refinery & By-Product Grits | | | | Natural or Mined Grits & Sands | | | | Manufactured | | | |
| Nozzle Size | Pressure (psi) | -25% | Median | +25% | Copper | Coal | Nickel | Iron | Olivine | Staurolite | Garnet | Silica | Zircon | Alumina | Glass | |
| 6 | 90 | 6.1 | 8.1 | 10.1 | 8.3 | 6.5 | 7.3 | 7.3 | 9.3 | 9.7 | 10.5 | 8.1 | 13.8 | 9.3 | 7.7 | 24.3 |
| 7 | 90 | 5.7 | 7.7 | 9.6 | 7.9 | 6.1 | 6.9 | 6.9 | 8.8 | 9.2 | 10.0 | 7.7 | 13.0 | 8.8 | 7.3 | 23.0 |
| 8 | 90 | 5.4 | 7.1 | 8.9 | 7.4 | 5.7 | 6.4 | 6.4 | 8.2 | 8.6 | 9.3 | 7.1 | 12.1 | 8.2 | 6.8 | 21.4 |
| 6 | 100 | 5.2 | 7.0 | 8.7 | 7.2 | 5.6 | 6.3 | 6.3 | 8.0 | 8.4 | 9.1 | 7.0 | 11.9 | 8.0 | 6.6 | 20.9 |
| 7 | 100 | 5.0 | 6.6 | 8.3 | 6.8 | 5.3 | 5.9 | 5.9 | 7.6 | 7.9 | 8.6 | 6.6 | 11.2 | 7.6 | 6.3 | 19.8 |
| 8 | 100 | 4.6 | 6.1 | 7.7 | 6.3 | 4.9 | 5.5 | 5.5 | 7.1 | 7.4 | 8.0 | 6.1 | 10.4 | 7.1 | 5.8 | 18.4 |
| 6 | 110 | 4.4 | 5.9 | 7.4 | 6.1 | 4.7 | 5.3 | 5.3 | 6.8 | 7.1 | 7.7 | 5.9 | 10.0 | 6.8 | 5.6 | 17.7 |
| 7 | 110 | 4.2 | 5.6 | 7.0 | 5.8 | 4.5 | 5.0 | 5.0 | 6.4 | 6.7 | 7.3 | 5.6 | 9.5 | 6.4 | 5.3 | 16.8 |
| 8 | 110 | 3.9 | 5.2 | 6.5 | 5.4 | 4.2 | 4.7 | 4.7 | 6.0 | 6.3 | 6.8 | 5.2 | 8.9 | 6.0 | 5.0 | 15.6 |
| 6 | 125 | 3.6 | 4.8 | 6.0 | 5.0 | 3.9 | 4.3 | 4.3 | 5.5 | 5.8 | 6.3 | 4.8 | 8.2 | 5.5 | 4.6 | 14.5 |
| 7 | 125 | 3.4 | 4.6 | 5.7 | 4.7 | 3.7 | 4.1 | 4.1 | 5.3 | 5.5 | 6.0 | 4.6 | 7.8 | 5.3 | 4.4 | 13.8 |
| 8 | 125 | 3.2 | 4.2 | 5.3 | 4.4 | 3.4 | 3.8 | 3.8 | 4.9 | 5.1 | 5.5 | 4.2 | 7.2 | 4.9 | 4.0 | 12.7 |

Light Rust, Millscale or Loose Paint

Soft Coating

High Profile Range

SSPC-SP 5

Tables 1213 CP

| Operating Conditions | | Consumption Rate lbs/ft² of Blasting | | | | | | | | | | | | | | |
|----------------------|----------------|--------------------------------------|--------|------|-----------------------------|------|--------|------|--------------------------------|------------|--------|--------|--------------|---------|-------|-----|
| | | Typical Mineral Abrasive | | | Refinery & By-Product Grits | | | | Natural or Mined Grits & Sands | | | | Manufactured | | | |
| Nozzle Size | Pressure (psi) | -25% | Median | +25% | Copper | Coal | Nickel | Iron | Olivine | Staurolite | Garnet | Silica | Zircon | Alumina | Glass | |
| 6 | 90 | 1.9 | 2.5 | 3.1 | 2.5 | 2.0 | 2.2 | 2.2 | 2.8 | 3.0 | 3.2 | 2.5 | 4.2 | 2.8 | 2.4 | 7.4 |
| 7 | 90 | 1.7 | 2.3 | 2.9 | 2.4 | 1.9 | 2.1 | 2.1 | 2.7 | 2.8 | 3.0 | 2.3 | 4.0 | 2.7 | 2.2 | 7.0 |
| 8 | 90 | 1.6 | 2.2 | 2.7 | 2.2 | 1.7 | 2.0 | 2.0 | 2.5 | 2.6 | 2.8 | 2.2 | 3.7 | 2.5 | 2.1 | 6.6 |
| 6 | 100 | 1.6 | 2.1 | 2.7 | 2.2 | 1.7 | 1.9 | 1.9 | 2.5 | 2.6 | 2.8 | 2.1 | 3.6 | 2.5 | 2.0 | 6.4 |
| 7 | 100 | 1.5 | 2.0 | 2.5 | 2.1 | 1.6 | 1.8 | 1.8 | 2.3 | 2.4 | 2.6 | 2.0 | 3.4 | 2.3 | 1.9 | 6.0 |
| 8 | 100 | 1.4 | 1.9 | 2.3 | 1.9 | 1.5 | 1.7 | 1.7 | 2.2 | 2.2 | 2.4 | 1.9 | 3.2 | 2.2 | 1.8 | 5.6 |
| 6 | 110 | 1.4 | 1.8 | 2.3 | 1.9 | 1.4 | 1.6 | 1.6 | 2.1 | 2.2 | 2.3 | 1.8 | 3.1 | 2.1 | 1.7 | 5.4 |
| 7 | 110 | 1.3 | 1.7 | 2.1 | 1.8 | 1.4 | 1.5 | 1.5 | 2.0 | 2.1 | 2.2 | 1.7 | 2.9 | 2.0 | 1.6 | 5.1 |
| 8 | 110 | 1.2 | 1.6 | 2.0 | 1.6 | 1.3 | 1.4 | 1.4 | 1.8 | 1.9 | 2.1 | 1.6 | 2.7 | 1.8 | 1.5 | 4.8 |
| 6 | 125 | 1.1 | 1.5 | 1.8 | 1.5 | 1.2 | 1.3 | 1.3 | 1.7 | 1.8 | 1.9 | 1.5 | 2.5 | 1.7 | 1.4 | 4.4 |
| 7 | 125 | 1.1 | 1.4 | 1.8 | 1.4 | 1.1 | 1.3 | 1.3 | 1.6 | 1.7 | 1.8 | 1.4 | 2.4 | 1.6 | 1.3 | 4.2 |
| 8 | 125 | 1.0 | 1.3 | 1.6 | 1.3 | 1.0 | 1.2 | 1.2 | 1.5 | 1.6 | 1.7 | 1.3 | 2.2 | 1.5 | 1.2 | 3.9 |

Light Rust, Millscale or Loose Paint

Soft Coating

Low Profile Range

SSPC-SP 10

Tables 1221 CP

| Operating Conditions | | Consumption Rate lbs/ft² of Blasting | | | | | | | | | | | | | | |
|----------------------|----------------|--------------------------------------|--------|------|-----------------------------|------|--------|------|--------------------------------|------------|--------|--------|--------------|---------|-------|------------|
| | | Typical Mineral Abrasive | | | Refinery & By-Product Grits | | | | Natural or Mined Grits & Sands | | | | Manufactured | | | Steel Iron |
| Nozzle Size | Pressure (psi) | -25% | Median | +25% | Copper | Coal | Nickel | Iron | Olivine | Staurolite | Garnet | Silica | Zircon | Alumina | Glass | |
| 6 | 90 | 2.8 | 3.7 | 4.6 | 3.8 | 3.0 | 3.3 | 3.3 | 4.3 | 4.5 | 4.8 | 3.7 | 6.3 | 4.3 | 3.5 | 11.2 |
| 7 | 90 | 2.6 | 3.5 | 4.4 | 3.6 | 2.8 | 3.1 | 3.1 | 4.0 | 4.2 | 4.5 | 3.5 | 5.9 | 4.0 | 3.3 | 10.5 |
| 8 | 90 | 2.5 | 3.3 | 4.1 | 3.4 | 2.6 | 2.9 | 2.9 | 3.8 | 3.9 | 4.3 | 3.3 | 5.6 | 3.8 | 3.1 | 9.8 |
| 6 | 100 | 2.4 | 3.2 | 4.0 | 3.3 | 2.6 | 2.9 | 2.9 | 3.7 | 3.8 | 4.2 | 3.2 | 5.4 | 3.7 | 3.0 | 9.6 |
| 7 | 100 | 2.3 | 3.0 | 3.8 | 3.1 | 2.4 | 2.7 | 2.7 | 3.5 | 3.6 | 3.9 | 3.0 | 5.1 | 3.5 | 2.9 | 9.1 |
| 8 | 100 | 2.1 | 2.8 | 3.5 | 2.9 | 2.2 | 2.5 | 2.5 | 3.2 | 3.4 | 3.7 | 2.8 | 4.8 | 3.2 | 2.7 | 8.4 |
| 6 | 110 | 2.0 | 2.7 | 3.4 | 2.8 | 2.2 | 2.4 | 2.4 | 3.1 | 3.2 | 3.5 | 2.7 | 4.6 | 3.1 | 2.6 | 8.1 |
| 7 | 110 | 1.9 | 2.6 | 3.2 | 2.7 | 2.1 | 2.3 | 2.3 | 3.0 | 3.1 | 3.3 | 2.6 | 4.4 | 3.0 | 2.4 | 7.7 |
| 8 | 110 | 1.8 | 2.4 | 3.0 | 2.5 | 1.9 | 2.1 | 2.1 | 2.7 | 2.9 | 3.1 | 2.4 | 4.1 | 2.7 | 2.3 | 7.2 |
| 6 | 125 | 1.7 | 2.2 | 2.8 | 2.3 | 1.8 | 2.0 | 2.0 | 2.5 | 2.6 | 2.9 | 2.2 | 3.8 | 2.5 | 2.1 | 6.6 |
| 7 | 125 | 1.6 | 2.1 | 2.6 | 2.2 | 1.7 | 1.9 | 1.9 | 2.4 | 2.5 | 2.7 | 2.1 | 3.6 | 2.4 | 2.0 | 6.3 |
| 8 | 125 | 1.5 | 2.0 | 2.4 | 2.0 | 1.6 | 1.8 | 1.8 | 2.2 | 2.3 | 2.5 | 2.0 | 3.3 | 2.2 | 1.9 | 5.9 |

Light Rust, Millscale or Loose Paint

Soft Coating

Medium Profile Range

SSPC-SP 10

Tables 1222 CP

| Operating Conditions | | Consumption Rate lbs/ft² of Blasting | | | | | | | | | | | | | | |
|----------------------|----------------|--------------------------------------|--------|------|-----------------------------|------|--------|------|--------------------------------|------------|--------|--------|--------------|---------|-------|------|
| | | Typical Mineral Abrasive | | | Refinery & By-Product Grits | | | | Natural or Mined Grits & Sands | | | | Manufactured | | | |
| Nozzle Size | Pressure (psi) | -25% | Median | +25% | Copper | Coal | Nickel | Iron | Olivine | Staurolite | Garnet | Silica | Zircon | Alumina | Glass | |
| 6 | 90 | 5.6 | 7.4 | 9.3 | 7.6 | 5.9 | 6.7 | 6.7 | 8.5 | 8.9 | 9.6 | 7.4 | 12.6 | 8.5 | 7.0 | 22.2 |
| 7 | 90 | 5.2 | 7.0 | 8.7 | 7.2 | 5.6 | 6.3 | 6.3 | 8.0 | 8.4 | 9.1 | 7.0 | 11.9 | 8.0 | 6.6 | 21.0 |
| 8 | 90 | 4.9 | 6.6 | 8.2 | 6.8 | 5.2 | 5.9 | 5.9 | 7.5 | 7.9 | 8.5 | 6.6 | 11.1 | 7.5 | 6.2 | 19.7 |
| 6 | 100 | 4.8 | 6.4 | 8.0 | 6.6 | 5.1 | 5.8 | 5.8 | 7.4 | 7.7 | 8.3 | 6.4 | 10.9 | 7.4 | 6.1 | 19.2 |
| 7 | 100 | 4.5 | 6.0 | 7.5 | 6.2 | 4.8 | 5.4 | 5.4 | 6.9 | 7.2 | 7.8 | 6.0 | 10.2 | 6.9 | 5.7 | 18.1 |
| 8 | 100 | 4.2 | 5.6 | 7.0 | 5.8 | 4.5 | 5.1 | 5.1 | 6.5 | 6.7 | 7.3 | 5.6 | 9.6 | 6.5 | 5.3 | 16.9 |
| 6 | 110 | 4.1 | 5.4 | 6.8 | 5.6 | 4.3 | 4.9 | 4.9 | 6.2 | 6.5 | 7.0 | 5.4 | 9.2 | 6.2 | 5.1 | 16.2 |
| 7 | 110 | 3.9 | 5.1 | 6.4 | 5.3 | 4.1 | 4.6 | 4.6 | 5.9 | 6.2 | 6.7 | 5.1 | 8.8 | 5.9 | 4.9 | 15.4 |
| 8 | 110 | 3.6 | 4.8 | 6.0 | 4.9 | 3.8 | 4.3 | 4.3 | 5.5 | 5.7 | 6.2 | 4.8 | 8.1 | 5.5 | 4.5 | 14.3 |
| 6 | 125 | 3.3 | 4.4 | 5.5 | 4.6 | 3.5 | 4.0 | 4.0 | 5.1 | 5.3 | 5.7 | 4.4 | 7.5 | 5.1 | 4.2 | 13.3 |
| 7 | 125 | 3.1 | 4.2 | 5.2 | 4.3 | 3.4 | 3.8 | 3.8 | 4.8 | 5.0 | 5.5 | 4.2 | 7.1 | 4.8 | 4.0 | 12.6 |
| 8 | 125 | 2.9 | 3.9 | 4.9 | 4.0 | 3.1 | 3.5 | 3.5 | 4.5 | 4.7 | 5.1 | 3.9 | 6.6 | 4.5 | 3.7 | 11.7 |

Light Rust, Millscale or Loose Paint

Soft Coating

High Profile Range

SSPC-SP 10

Tables 1223 CP

| Operating Conditions | | Consumption Rate lbs/ft² of Blasting | | | | | | | | | | | | | | |
|----------------------|----------------|--------------------------------------|--------|------|-----------------------------|------|--------|------|--------------------------------|------------|--------|--------|--------------|---------|-------|-----|
| | | Typical Mineral Abrasive | | | Refinery & By-Product Grits | | | | Natural or Mined Grits & Sands | | | | Manufactured | | | |
| Nozzle Size | Pressure (psi) | -25% | Median | +25% | Copper | Coal | Nickel | Iron | Olivine | Staurolite | Garnet | Silica | Zircon | Alumina | Glass | |
| 6 | 90 | 0.9 | 1.2 | 1.5 | 1.2 | 1.0 | 1.1 | 1.1 | 1.4 | 1.4 | 1.5 | 1.2 | 2.0 | 1.4 | 1.1 | 3.6 |
| 7 | 90 | 0.8 | 1.1 | 1.4 | 1.1 | 0.9 | 1.0 | 1.0 | 1.3 | 1.3 | 1.4 | 1.1 | 1.9 | 1.3 | 1.0 | 3.3 |
| 8 | 90 | 0.8 | 1.0 | 1.3 | 1.1 | 0.8 | 0.9 | 0.9 | 1.2 | 1.3 | 1.4 | 1.0 | 1.8 | 1.2 | 1.0 | 3.1 |
| 6 | 100 | 0.8 | 1.0 | 1.3 | 1.1 | 0.8 | 0.9 | 0.9 | 1.2 | 1.2 | 1.3 | 1.0 | 1.7 | 1.2 | 1.0 | 3.1 |
| 7 | 100 | 0.7 | 0.9 | 1.2 | 1.0 | 0.8 | 0.8 | 0.8 | 1.1 | 1.1 | 1.2 | 0.9 | 1.6 | 1.1 | 0.9 | 2.8 |
| 8 | 100 | 0.7 | 0.9 | 1.1 | 0.9 | 0.7 | 0.8 | 0.8 | 1.0 | 1.1 | 1.2 | 0.9 | 1.5 | 1.0 | 0.9 | 2.7 |
| 6 | 110 | 0.6 | 0.9 | 1.1 | 0.9 | 0.7 | 0.8 | 0.8 | 1.0 | 1.0 | 1.1 | 0.9 | 1.5 | 1.0 | 0.8 | 2.6 |
| 7 | 110 | 0.6 | 0.8 | 1.0 | 0.8 | 0.6 | 0.7 | 0.7 | 0.9 | 1.0 | 1.0 | 0.8 | 1.4 | 0.9 | 0.8 | 2.4 |
| 8 | 110 | 0.6 | 0.8 | 1.0 | 0.8 | 0.6 | 0.7 | 0.7 | 0.9 | 0.9 | 1.0 | 0.8 | 1.3 | 0.9 | 0.7 | 2.3 |
| 6 | 125 | 0.5 | 0.7 | 0.9 | 0.7 | 0.6 | 0.6 | 0.6 | 0.8 | 0.8 | 0.9 | 0.7 | 1.2 | 0.8 | 0.7 | 2.1 |
| 7 | 125 | 0.5 | 0.7 | 0.8 | 0.7 | 0.5 | 0.6 | 0.6 | 0.8 | 0.8 | 0.8 | 0.7 | 1.1 | 0.8 | 0.6 | 2.0 |
| 8 | 125 | 0.5 | 0.6 | 0.8 | 0.6 | 0.5 | 0.6 | 0.6 | 0.7 | 0.7 | 0.8 | 0.6 | 1.1 | 0.7 | 0.6 | 1.9 |

Light Rust, Millscale or Loose Paint

Soft Coating

Low Profile Range

SSPC-SP 6

Tables 1231 CP

| Operating Conditions | | Consumption Rate lbs/ft² of Blasting | | | | | | | | | | | | | | |
|----------------------|----------------|--------------------------------------|--------|------|-----------------------------|------|--------|------|--------------------------------|------------|--------|--------|--------------|---------|-------|-----|
| | | Typical Mineral Abrasive | | | Refinery & By-Product Grits | | | | Natural or Mined Grits & Sands | | | | Manufactured | | | |
| Nozzle Size | Pressure (psi) | -25% | Median | +25% | Copper | Coal | Nickel | Iron | Olivine | Staurolite | Garnet | Silica | Zircon | Alumina | Glass | |
| 6 | 90 | 1.3 | 1.8 | 2.2 | 1.8 | 1.4 | 1.6 | 1.6 | 2.1 | 2.1 | 2.3 | 1.8 | 3.0 | 2.1 | 1.7 | 5.3 |
| 7 | 90 | 1.2 | 1.6 | 2.0 | 1.7 | 1.3 | 1.5 | 1.5 | 1.9 | 2.0 | 2.1 | 1.6 | 2.8 | 1.9 | 1.6 | 4.9 |
| 8 | 90 | 1.2 | 1.6 | 2.0 | 1.6 | 1.3 | 1.4 | 1.4 | 1.8 | 1.9 | 2.0 | 1.6 | 2.7 | 1.8 | 1.5 | 4.7 |
| 6 | 100 | 1.2 | 1.5 | 1.9 | 1.6 | 1.2 | 1.4 | 1.4 | 1.8 | 1.8 | 2.0 | 1.5 | 2.6 | 1.8 | 1.5 | 4.6 |
| 7 | 100 | 1.1 | 1.4 | 1.8 | 1.5 | 1.1 | 1.3 | 1.3 | 1.6 | 1.7 | 1.8 | 1.4 | 2.4 | 1.6 | 1.3 | 4.2 |
| 8 | 100 | 1.0 | 1.3 | 1.7 | 1.4 | 1.1 | 1.2 | 1.2 | 1.6 | 1.6 | 1.8 | 1.3 | 2.3 | 1.6 | 1.3 | 4.0 |
| 6 | 110 | 1.0 | 1.3 | 1.6 | 1.3 | 1.0 | 1.2 | 1.2 | 1.5 | 1.6 | 1.7 | 1.3 | 2.2 | 1.5 | 1.2 | 3.9 |
| 7 | 110 | 0.9 | 1.2 | 1.5 | 1.2 | 1.0 | 1.1 | 1.1 | 1.4 | 1.4 | 1.6 | 1.2 | 2.0 | 1.4 | 1.1 | 3.6 |
| 8 | 110 | 0.9 | 1.1 | 1.4 | 1.2 | 0.9 | 1.0 | 1.0 | 1.3 | 1.4 | 1.5 | 1.1 | 1.9 | 1.3 | 1.1 | 3.4 |
| 6 | 125 | 0.8 | 1.1 | 1.3 | 1.1 | 0.8 | 1.0 | 1.0 | 1.2 | 1.3 | 1.4 | 1.1 | 1.8 | 1.2 | 1.0 | 3.2 |
| 7 | 125 | 0.7 | 1.0 | 1.2 | 1.0 | 0.8 | 0.9 | 0.9 | 1.1 | 1.2 | 1.3 | 1.0 | 1.7 | 1.1 | 0.9 | 2.9 |
| 8 | 125 | 0.7 | 0.9 | 1.2 | 1.0 | 0.7 | 0.8 | 0.8 | 1.1 | 1.1 | 1.2 | 0.9 | 1.6 | 1.1 | 0.9 | 2.8 |

Light Rust, Millscale or Loose Paint

Soft Coating

Medium Profile Range

SSPC-SP 6

Tables 1232 CP

| Operating Conditions | | Consumption Rate lbs/ft² of Blasting | | | | | | | | | | | | | | |
|----------------------|----------------|--------------------------------------|--------|------|-----------------------------|------|--------|------|--------------------------------|------------|--------|--------|--------------|---------|-------|------|
| | | Typical Mineral Abrasive | | | Refinery & By-Product Grits | | | | Natural or Mined Grits & Sands | | | | Manufactured | | | |
| Nozzle Size | Pressure (psi) | -25% | Median | +25% | Copper | Coal | Nickel | Iron | Olivine | Staurolite | Garnet | Silica | Zircon | Alumina | Glass | |
| 6 | 90 | 2.7 | 3.6 | 4.5 | 3.7 | 2.9 | 3.2 | 3.2 | 4.1 | 4.3 | 4.6 | 3.6 | 6.1 | 4.1 | 3.4 | 10.7 |
| 7 | 90 | 2.5 | 3.3 | 4.1 | 3.4 | 2.6 | 2.9 | 2.9 | 3.8 | 3.9 | 4.2 | 3.3 | 5.6 | 3.8 | 3.1 | 9.8 |
| 8 | 90 | 2.4 | 3.1 | 3.9 | 3.2 | 2.5 | 2.8 | 2.8 | 3.6 | 3.8 | 4.1 | 3.1 | 5.3 | 3.6 | 3.0 | 9.4 |
| 6 | 100 | 2.3 | 3.1 | 3.8 | 3.2 | 2.5 | 2.8 | 2.8 | 3.5 | 3.7 | 4.0 | 3.1 | 5.2 | 3.5 | 2.9 | 9.2 |
| 7 | 100 | 2.1 | 2.8 | 3.5 | 2.9 | 2.3 | 2.5 | 2.5 | 3.2 | 3.4 | 3.7 | 2.8 | 4.8 | 3.2 | 2.7 | 8.4 |
| 8 | 100 | 2.0 | 2.7 | 3.4 | 2.8 | 2.2 | 2.4 | 2.4 | 3.1 | 3.2 | 3.5 | 2.7 | 4.6 | 3.1 | 2.6 | 8.1 |
| 6 | 110 | 1.9 | 2.6 | 3.2 | 2.7 | 2.1 | 2.3 | 2.3 | 3.0 | 3.1 | 3.4 | 2.6 | 4.4 | 3.0 | 2.5 | 7.8 |
| 7 | 110 | 1.8 | 2.4 | 3.0 | 2.5 | 1.9 | 2.2 | 2.2 | 2.8 | 2.9 | 3.1 | 2.4 | 4.1 | 2.8 | 2.3 | 7.2 |
| 8 | 110 | 1.7 | 2.3 | 2.9 | 2.4 | 1.8 | 2.1 | 2.1 | 2.6 | 2.8 | 3.0 | 2.3 | 3.9 | 2.6 | 2.2 | 6.9 |
| 6 | 125 | 1.6 | 2.1 | 2.7 | 2.2 | 1.7 | 1.9 | 1.9 | 2.4 | 2.5 | 2.8 | 2.1 | 3.6 | 2.4 | 2.0 | 6.4 |
| 7 | 125 | 1.5 | 2.0 | 2.4 | 2.0 | 1.6 | 1.8 | 1.8 | 2.3 | 2.4 | 2.5 | 2.0 | 3.3 | 2.3 | 1.9 | 5.9 |
| 8 | 125 | 1.4 | 1.9 | 2.3 | 1.9 | 1.5 | 1.7 | 1.7 | 2.2 | 2.2 | 2.4 | 1.9 | 3.2 | 2.2 | 1.8 | 5.6 |

Light Rust, Millscale or Loose Paint

Soft Coating

High Profile Range

SSPC-SP 6

Tables 1233 CP

| Operating Conditions | | Consumption Rate lbs/ft² of Blasting | | | | | | | | | | | | | | |
|----------------------|----------------|--------------------------------------|--------|------|-----------------------------|------|--------|------|--------------------------------|------------|--------|--------|--------------|---------|-------|-----|
| | | Typical Mineral Abrasive | | | Refinery & By-Product Grits | | | | Natural or Mined Grits & Sands | | | | Manufactured | | | |
| Nozzle Size | Pressure (psi) | -25% | Median | +25% | Copper | Coal | Nickel | Iron | Olivine | Staurolite | Garnet | Silica | Zircon | Alumina | Glass | |
| 6 | 90 | 1.0 | 1.3 | 1.7 | 1.4 | 1.1 | 1.2 | 1.2 | 1.5 | 1.6 | 1.7 | 1.3 | 2.3 | 1.5 | 1.3 | 4.0 |
| 7 | 90 | 0.9 | 1.2 | 1.5 | 1.3 | 1.0 | 1.1 | 1.1 | 1.4 | 1.5 | 1.6 | 1.2 | 2.1 | 1.4 | 1.2 | 3.7 |
| 8 | 90 | 0.9 | 1.2 | 1.5 | 1.2 | 0.9 | 1.1 | 1.1 | 1.4 | 1.4 | 1.5 | 1.2 | 2.0 | 1.4 | 1.1 | 3.5 |
| 6 | 100 | 0.9 | 1.2 | 1.4 | 1.2 | 0.9 | 1.0 | 1.0 | 1.3 | 1.4 | 1.5 | 1.2 | 2.0 | 1.3 | 1.1 | 3.5 |
| 7 | 100 | 0.8 | 1.1 | 1.3 | 1.1 | 0.8 | 1.0 | 1.0 | 1.2 | 1.3 | 1.4 | 1.1 | 1.8 | 1.2 | 1.0 | 3.2 |
| 8 | 100 | 0.8 | 1.0 | 1.3 | 1.0 | 0.8 | 0.9 | 0.9 | 1.2 | 1.2 | 1.3 | 1.0 | 1.7 | 1.2 | 1.0 | 3.0 |
| 6 | 110 | 0.7 | 1.0 | 1.2 | 1.0 | 0.8 | 0.9 | 0.9 | 1.1 | 1.2 | 1.3 | 1.0 | 1.7 | 1.1 | 0.9 | 2.9 |
| 7 | 110 | 0.7 | 0.9 | 1.1 | 0.9 | 0.7 | 0.8 | 0.8 | 1.0 | 1.1 | 1.2 | 0.9 | 1.5 | 1.0 | 0.9 | 2.7 |
| 8 | 110 | 0.6 | 0.9 | 1.1 | 0.9 | 0.7 | 0.8 | 0.8 | 1.0 | 1.0 | 1.1 | 0.9 | 1.5 | 1.0 | 0.8 | 2.6 |
| 6 | 125 | 0.6 | 0.8 | 1.0 | 0.8 | 0.6 | 0.7 | 0.7 | 0.9 | 1.0 | 1.0 | 0.8 | 1.4 | 0.9 | 0.8 | 2.4 |
| 7 | 125 | 0.6 | 0.7 | 0.9 | 0.8 | 0.6 | 0.7 | 0.7 | 0.8 | 0.9 | 1.0 | 0.7 | 1.2 | 0.8 | 0.7 | 2.2 |
| 8 | 125 | 0.5 | 0.7 | 0.9 | 0.7 | 0.6 | 0.6 | 0.6 | 0.8 | 0.8 | 0.9 | 0.7 | 1.2 | 0.8 | 0.7 | 2.1 |

Light Rust, Millscale or Loose Paint

Soft Coating

Low Profile Range

SSPC-SP 7

Tables 1241 CP

| Operating Conditions | | Consumption Rate lbs/ft² of Blasting | | | | | | | | | | | | | | |
|----------------------|----------------|--------------------------------------|--------|------|-----------------------------|------|--------|------|--------------------------------|------------|--------|--------|--------------|---------|-------|------|
| | | Typical Mineral Abrasive | | | Refinery & By-Product Grits | | | | Natural or Mined Grits & Sands | | | | Manufactured | | | |
| Nozzle Size | Pressure (psi) | -25% | Median | +25% | Copper | Coal | Nickel | Iron | Olivine | Staurolite | Garnet | Silica | Zircon | Alumina | Glass | |
| 6 | 90 | 3.7 | 4.9 | 6.2 | 5.1 | 4.0 | 4.4 | 4.4 | 5.7 | 5.9 | 6.4 | 4.9 | 8.4 | 5.7 | 4.7 | 14.8 |
| 7 | 90 | 3.5 | 4.7 | 5.9 | 4.9 | 3.8 | 4.2 | 4.2 | 5.4 | 5.7 | 6.1 | 4.7 | 8.0 | 5.4 | 4.5 | 14.1 |
| 8 | 90 | 3.3 | 4.4 | 5.4 | 4.5 | 3.5 | 3.9 | 3.9 | 5.0 | 5.2 | 5.7 | 4.4 | 7.4 | 5.0 | 4.1 | 13.1 |
| 6 | 100 | 3.2 | 4.3 | 5.3 | 4.4 | 3.4 | 3.8 | 3.8 | 4.9 | 5.1 | 5.5 | 4.3 | 7.3 | 4.9 | 4.1 | 12.8 |
| 7 | 100 | 3.0 | 4.1 | 5.1 | 4.2 | 3.2 | 3.7 | 3.7 | 4.7 | 4.9 | 5.3 | 4.1 | 6.9 | 4.7 | 3.9 | 12.2 |
| 8 | 100 | 2.8 | 3.7 | 4.7 | 3.9 | 3.0 | 3.4 | 3.4 | 4.3 | 4.5 | 4.9 | 3.7 | 6.4 | 4.3 | 3.6 | 11.2 |
| 6 | 110 | 2.7 | 3.6 | 4.5 | 3.7 | 2.9 | 3.2 | 3.2 | 4.1 | 4.3 | 4.7 | 3.6 | 6.1 | 4.1 | 3.4 | 10.8 |
| 7 | 110 | 2.6 | 3.5 | 4.3 | 3.6 | 2.8 | 3.1 | 3.1 | 4.0 | 4.2 | 4.5 | 3.5 | 5.9 | 4.0 | 3.3 | 10.4 |
| 8 | 110 | 2.4 | 3.2 | 4.0 | 3.3 | 2.5 | 2.9 | 2.9 | 3.7 | 3.8 | 4.1 | 3.2 | 5.4 | 3.7 | 3.0 | 9.6 |
| 6 | 125 | 2.2 | 2.9 | 3.7 | 3.0 | 2.4 | 2.6 | 2.6 | 3.4 | 3.5 | 3.8 | 2.9 | 5.0 | 3.4 | 2.8 | 8.8 |
| 7 | 125 | 2.1 | 2.8 | 3.5 | 2.9 | 2.3 | 2.5 | 2.5 | 3.2 | 3.4 | 3.7 | 2.8 | 4.8 | 3.2 | 2.7 | 8.5 |
| 8 | 125 | 1.9 | 2.6 | 3.2 | 2.7 | 2.1 | 2.3 | 2.3 | 3.0 | 3.1 | 3.4 | 2.6 | 4.4 | 3.0 | 2.5 | 7.8 |

Tight Rust or Millscale

Hard Coating

Low Profile Range

SSPC-SP 5

Tables 2111 CP

| Operating Conditions | | Consumption Rate lbs/ft² of Blasting | | | | | | | | | | | | | | |
|----------------------|----------------|--------------------------------------|--------|------|-----------------------------|------|--------|------|--------------------------------|------------|--------|--------|--------------|---------|-------|------|
| | | Typical Mineral Abrasive | | | Refinery & By-Product Grits | | | | Natural or Mined Grits & Sands | | | | Manufactured | | | |
| Nozzle Size | Pressure (psi) | -25% | Median | +25% | Copper | Coal | Nickel | Iron | Olivine | Staurolite | Garnet | Silica | Zircon | Alumina | Glass | |
| 6 | 90 | 5.6 | 7.4 | 9.3 | 7.6 | 5.9 | 6.7 | 6.7 | 8.5 | 8.9 | 9.6 | 7.4 | 12.6 | 8.5 | 7.0 | 22.2 |
| 7 | 90 | 5.3 | 7.1 | 8.9 | 7.3 | 5.7 | 6.4 | 6.4 | 8.2 | 8.5 | 9.2 | 7.1 | 12.1 | 8.2 | 6.7 | 21.3 |
| 8 | 90 | 4.9 | 6.5 | 8.2 | 6.7 | 5.2 | 5.9 | 5.9 | 7.5 | 7.8 | 8.5 | 6.5 | 11.1 | 7.5 | 6.2 | 19.6 |
| 6 | 100 | 4.8 | 6.4 | 8.0 | 6.6 | 5.1 | 5.8 | 5.8 | 7.4 | 7.7 | 8.3 | 6.4 | 10.9 | 7.4 | 6.1 | 19.2 |
| 7 | 100 | 4.6 | 6.1 | 7.6 | 6.3 | 4.9 | 5.5 | 5.5 | 7.0 | 7.3 | 7.9 | 6.1 | 10.4 | 7.0 | 5.8 | 18.3 |
| 8 | 100 | 4.2 | 5.6 | 7.0 | 5.8 | 4.5 | 5.1 | 5.1 | 6.5 | 6.7 | 7.3 | 5.6 | 9.6 | 6.5 | 5.3 | 16.9 |
| 6 | 110 | 4.1 | 5.4 | 6.8 | 5.6 | 4.3 | 4.9 | 4.9 | 6.2 | 6.5 | 7.1 | 5.4 | 9.2 | 6.2 | 5.2 | 16.3 |
| 7 | 110 | 3.9 | 5.2 | 6.5 | 5.3 | 4.1 | 4.7 | 4.7 | 6.0 | 6.2 | 6.7 | 5.2 | 8.8 | 6.0 | 4.9 | 15.5 |
| 8 | 110 | 3.6 | 4.8 | 6.0 | 4.9 | 3.8 | 4.3 | 4.3 | 5.5 | 5.7 | 6.2 | 4.8 | 8.1 | 5.5 | 4.5 | 14.3 |
| 6 | 125 | 3.3 | 4.4 | 5.5 | 4.5 | 3.5 | 4.0 | 4.0 | 5.1 | 5.3 | 5.7 | 4.4 | 7.5 | 5.1 | 4.2 | 13.2 |
| 7 | 125 | 3.2 | 4.2 | 5.3 | 4.4 | 3.4 | 3.8 | 3.8 | 4.9 | 5.1 | 5.5 | 4.2 | 7.2 | 4.9 | 4.0 | 12.7 |
| 8 | 125 | 2.9 | 3.9 | 4.9 | 4.0 | 3.1 | 3.5 | 3.5 | 4.5 | 4.7 | 5.1 | 3.9 | 6.6 | 4.5 | 3.7 | 11.7 |

Tight Rust or Millscale

Hard Coating

Medium Profile Range

SSPC-SP 5

Tables 2112 CP

| Operating Conditions | | Consumption Rate lbs/ft² of Blasting | | | | | | | | | | | | | | |
|----------------------|----------------|--------------------------------------|--------|------|-----------------------------|------|--------|------|--------------------------------|------------|--------|--------|--------------|---------|-------|------|
| | | Typical Mineral Abrasive | | | Refinery & By-Product Grits | | | | Natural or Mined Grits & Sands | | | | Manufactured | | | |
| Nozzle Size | Pressure (psi) | -25% | Median | +25% | Copper | Coal | Nickel | Iron | Olivine | Staurolite | Garnet | Silica | Zircon | Alumina | Glass | |
| 6 | 90 | 11.1 | 14.8 | 18.5 | 15.3 | 11.9 | 13.3 | 13.3 | 17.0 | 17.8 | 19.3 | 14.8 | 25.2 | 17.0 | 14.1 | 44.5 |
| 7 | 90 | 10.6 | 14.2 | 17.7 | 14.6 | 11.4 | 12.8 | 12.8 | 16.3 | 17.0 | 18.5 | 14.2 | 24.1 | 16.3 | 13.5 | 42.6 |
| 8 | 90 | 9.8 | 13.1 | 16.3 | 13.5 | 10.5 | 11.8 | 11.8 | 15.0 | 15.7 | 17.0 | 13.1 | 22.2 | 15.0 | 12.4 | 39.2 |
| 6 | 100 | 9.6 | 12.8 | 16.0 | 13.2 | 10.2 | 11.5 | 11.5 | 14.7 | 15.4 | 16.6 | 12.8 | 21.8 | 14.7 | 12.2 | 38.4 |
| 7 | 100 | 9.1 | 12.2 | 15.2 | 12.6 | 9.7 | 11.0 | 11.0 | 14.0 | 14.6 | 15.8 | 12.2 | 20.7 | 14.0 | 11.6 | 36.6 |
| 8 | 100 | 8.4 | 11.2 | 14.1 | 11.6 | 9.0 | 10.1 | 10.1 | 12.9 | 13.5 | 14.6 | 11.2 | 19.1 | 12.9 | 10.7 | 33.7 |
| 6 | 110 | 8.1 | 10.8 | 13.6 | 11.2 | 8.7 | 9.8 | 9.8 | 12.5 | 13.0 | 14.1 | 10.8 | 18.4 | 12.5 | 10.3 | 32.5 |
| 7 | 110 | 7.8 | 10.4 | 12.9 | 10.7 | 8.3 | 9.3 | 9.3 | 11.9 | 12.4 | 13.5 | 10.4 | 17.6 | 11.9 | 9.8 | 31.1 |
| 8 | 110 | 7.2 | 9.6 | 12.0 | 9.9 | 7.7 | 8.6 | 8.6 | 11.0 | 11.5 | 12.4 | 9.6 | 16.3 | 11.0 | 9.1 | 28.7 |
| 6 | 125 | 6.6 | 8.8 | 11.0 | 9.1 | 7.1 | 7.9 | 7.9 | 10.1 | 10.6 | 11.5 | 8.8 | 15.0 | 10.1 | 8.4 | 26.4 |
| 7 | 125 | 6.4 | 8.5 | 10.6 | 8.7 | 6.8 | 7.6 | 7.6 | 9.7 | 10.2 | 11.0 | 8.5 | 14.4 | 9.7 | 8.0 | 25.4 |
| 8 | 125 | 5.8 | 7.8 | 9.7 | 8.0 | 6.2 | 7.0 | 7.0 | 8.9 | 9.3 | 10.1 | 7.8 | 13.2 | 8.9 | 7.4 | 23.3 |

Tight Rust or Millscale

Hard Coating

High Profile Range

SSPC-SP 5

Tables 2113 CP

| Operating Conditions | | Consumption Rate lbs/ft² of Blasting | | | | | | | | | | | | | | |
|----------------------|----------------|--------------------------------------|--------|------|-----------------------------|------|--------|------|--------------------------------|------------|--------|--------|--------------|---------|-------|------|
| | | Typical Mineral Abrasive | | | Refinery & By-Product Grits | | | | Natural or Mined Grits & Sands | | | | Manufactured | | | |
| Nozzle Size | Pressure (psi) | -25% | Median | +25% | Copper | Coal | Nickel | Iron | Olivine | Staurolite | Garnet | Silica | Zircon | Alumina | Glass | |
| 6 | 90 | 3.3 | 4.5 | 5.6 | 4.6 | 3.6 | 4.0 | 4.0 | 5.1 | 5.3 | 5.8 | 4.5 | 7.6 | 5.1 | 4.2 | 13.4 |
| 7 | 90 | 3.3 | 4.4 | 5.5 | 4.5 | 3.5 | 3.9 | 3.9 | 5.0 | 5.3 | 5.7 | 4.4 | 7.5 | 5.0 | 4.2 | 13.2 |
| 8 | 90 | 3.0 | 4.0 | 5.0 | 4.1 | 3.2 | 3.6 | 3.6 | 4.6 | 4.8 | 5.2 | 4.0 | 6.8 | 4.6 | 3.8 | 12.1 |
| 6 | 100 | 2.9 | 3.8 | 4.8 | 4.0 | 3.1 | 3.5 | 3.5 | 4.4 | 4.6 | 5.0 | 3.8 | 6.5 | 4.4 | 3.6 | 11.5 |
| 7 | 100 | 2.8 | 3.8 | 4.7 | 3.9 | 3.0 | 3.4 | 3.4 | 4.3 | 4.5 | 4.9 | 3.8 | 6.4 | 4.3 | 3.6 | 11.3 |
| 8 | 100 | 2.6 | 3.5 | 4.3 | 3.6 | 2.8 | 3.1 | 3.1 | 4.0 | 4.2 | 4.5 | 3.5 | 5.9 | 4.0 | 3.3 | 10.4 |
| 6 | 110 | 2.4 | 3.3 | 4.1 | 3.3 | 2.6 | 2.9 | 2.9 | 3.7 | 3.9 | 4.2 | 3.3 | 5.5 | 3.7 | 3.1 | 9.8 |
| 7 | 110 | 2.4 | 3.2 | 4.0 | 3.3 | 2.6 | 2.9 | 2.9 | 3.7 | 3.9 | 4.2 | 3.2 | 5.5 | 3.7 | 3.1 | 9.6 |
| 8 | 110 | 2.2 | 2.9 | 3.7 | 3.0 | 2.4 | 2.6 | 2.6 | 3.4 | 3.5 | 3.8 | 2.9 | 5.0 | 3.4 | 2.8 | 8.8 |
| 6 | 125 | 2.0 | 2.6 | 3.3 | 2.7 | 2.1 | 2.4 | 2.4 | 3.0 | 3.2 | 3.4 | 2.6 | 4.5 | 3.0 | 2.5 | 7.9 |
| 7 | 125 | 2.0 | 2.6 | 3.3 | 2.7 | 2.1 | 2.4 | 2.4 | 3.0 | 3.1 | 3.4 | 2.6 | 4.5 | 3.0 | 2.5 | 7.9 |
| 8 | 125 | 1.8 | 2.4 | 3.0 | 2.5 | 1.9 | 2.2 | 2.2 | 2.8 | 2.9 | 3.1 | 2.4 | 4.1 | 2.8 | 2.3 | 7.2 |

Tight Rust or Millscale

Hard Coating

Low Profile Range

SSPC-SP 10

Tables 2121

CP

| Operating Conditions | | Consumption Rate lbs/ft² of Blasting | | | | | | | | | | | | | | |
|----------------------|----------------|--------------------------------------|--------|------|-----------------------------|------|--------|------|--------------------------------|------------|--------|--------|--------------|---------|-------|------|
| | | Typical Mineral Abrasive | | | Refinery & By-Product Grits | | | | Natural or Mined Grits & Sands | | | | Manufactured | | | |
| Nozzle Size | Pressure (psi) | -25% | Median | +25% | Copper | Coal | Nickel | Iron | Olivine | Staurolite | Garnet | Silica | Zircon | Alumina | Glass | Iron |
| 6 | 90 | 5.0 | 6.7 | 8.3 | 6.9 | 5.3 | 6.0 | 6.0 | 7.7 | 8.0 | 8.7 | 6.7 | 11.3 | 7.7 | 6.3 | 20.0 |
| 7 | 90 | 4.9 | 6.6 | 8.2 | 6.8 | 5.3 | 5.9 | 5.9 | 7.6 | 7.9 | 8.6 | 6.6 | 11.2 | 7.6 | 6.3 | 19.7 |
| 8 | 90 | 4.5 | 6.0 | 7.6 | 6.2 | 4.8 | 5.4 | 5.4 | 7.0 | 7.3 | 7.9 | 6.0 | 10.3 | 7.0 | 5.7 | 18.1 |
| 6 | 100 | 4.3 | 5.8 | 7.2 | 5.9 | 4.6 | 5.2 | 5.2 | 6.6 | 6.9 | 7.5 | 5.8 | 9.8 | 6.6 | 5.5 | 17.3 |
| 7 | 100 | 4.2 | 5.7 | 7.1 | 5.8 | 4.5 | 5.1 | 5.1 | 6.5 | 6.8 | 7.4 | 5.7 | 9.6 | 6.5 | 5.4 | 17.0 |
| 8 | 100 | 3.9 | 5.2 | 6.5 | 5.3 | 4.2 | 4.7 | 4.7 | 6.0 | 6.2 | 6.7 | 5.2 | 8.8 | 6.0 | 4.9 | 15.6 |
| 6 | 110 | 3.6 | 4.9 | 6.1 | 5.0 | 3.9 | 4.4 | 4.4 | 5.6 | 5.8 | 6.3 | 4.9 | 8.3 | 5.6 | 4.6 | 14.6 |
| 7 | 110 | 3.6 | 4.8 | 6.0 | 5.0 | 3.9 | 4.3 | 4.3 | 5.5 | 5.8 | 6.3 | 4.8 | 8.2 | 5.5 | 4.6 | 14.4 |
| 8 | 110 | 3.3 | 4.4 | 5.5 | 4.5 | 3.5 | 4.0 | 4.0 | 5.1 | 5.3 | 5.7 | 4.4 | 7.5 | 5.1 | 4.2 | 13.2 |
| 6 | 125 | 3.0 | 4.0 | 5.0 | 4.1 | 3.2 | 3.6 | 3.6 | 4.6 | 4.8 | 5.2 | 4.0 | 6.7 | 4.6 | 3.8 | 11.9 |
| 7 | 125 | 2.9 | 3.9 | 4.9 | 4.1 | 3.1 | 3.5 | 3.5 | 4.5 | 4.7 | 5.1 | 3.9 | 6.7 | 4.5 | 3.7 | 11.8 |
| 8 | 125 | 2.7 | 3.6 | 4.5 | 3.7 | 2.9 | 3.2 | 3.2 | 4.1 | 4.3 | 4.7 | 3.6 | 6.1 | 4.1 | 3.4 | 10.8 |

Tight Rust or Millscale

Hard Coating

Medium Profile Range

SSPC-SP 10

Tables 2122 CP

| Operating Conditions | | Consumption Rate lbs/ft² of Blasting | | | | | | | | | | | | | | |
|----------------------|----------------|--------------------------------------|--------|------|-----------------------------|------|--------|------|--------------------------------|------------|--------|--------|--------------|---------|-------|------|
| | | Typical Mineral Abrasive | | | Refinery & By-Product Grits | | | | Natural or Mined Grits & Sands | | | | Manufactured | | | |
| Nozzle Size | Pressure (psi) | -25% | Median | +25% | Copper | Coal | Nickel | Iron | Olivine | Staurolite | Garnet | Silica | Zircon | Alumina | Glass | |
| 6 | 90 | 10.0 | 13.3 | 16.6 | 13.7 | 10.7 | 12.0 | 12.0 | 15.3 | 16.0 | 17.3 | 13.3 | 22.6 | 15.3 | 12.7 | 39.9 |
| 7 | 90 | 9.9 | 13.2 | 16.5 | 13.6 | 10.5 | 11.8 | 11.8 | 15.1 | 15.8 | 17.1 | 13.2 | 22.4 | 15.1 | 12.5 | 39.5 |
| 8 | 90 | 9.0 | 12.1 | 15.1 | 12.4 | 9.6 | 10.8 | 10.8 | 13.9 | 14.5 | 15.7 | 12.1 | 20.5 | 13.9 | 11.4 | 36.2 |
| 6 | 100 | 8.6 | 11.5 | 14.4 | 11.9 | 9.2 | 10.4 | 10.4 | 13.2 | 13.8 | 15.0 | 11.5 | 19.6 | 13.2 | 10.9 | 34.6 |
| 7 | 100 | 8.5 | 11.3 | 14.1 | 11.7 | 9.1 | 10.2 | 10.2 | 13.0 | 13.6 | 14.7 | 11.3 | 19.2 | 13.0 | 10.7 | 33.9 |
| 8 | 100 | 7.8 | 10.4 | 13.0 | 10.7 | 8.3 | 9.3 | 9.3 | 11.9 | 12.5 | 13.5 | 10.4 | 17.6 | 11.9 | 9.9 | 31.1 |
| 6 | 110 | 7.3 | 9.7 | 12.2 | 10.0 | 7.8 | 8.8 | 8.8 | 11.2 | 11.7 | 12.6 | 9.7 | 16.5 | 11.2 | 9.2 | 29.2 |
| 7 | 110 | 7.2 | 9.7 | 12.1 | 9.9 | 7.7 | 8.7 | 8.7 | 11.1 | 11.6 | 12.5 | 9.7 | 16.4 | 11.1 | 9.2 | 29.0 |
| 8 | 110 | 6.6 | 8.8 | 11.0 | 9.1 | 7.1 | 7.9 | 7.9 | 10.2 | 10.6 | 11.5 | 8.8 | 15.0 | 10.2 | 8.4 | 26.5 |
| 6 | 125 | 5.9 | 7.9 | 9.9 | 8.2 | 6.3 | 7.1 | 7.1 | 9.1 | 9.5 | 10.3 | 7.9 | 13.5 | 9.1 | 7.5 | 23.7 |
| 7 | 125 | 5.9 | 7.8 | 9.8 | 8.1 | 6.3 | 7.1 | 7.1 | 9.0 | 9.4 | 10.2 | 7.8 | 13.3 | 9.0 | 7.5 | 23.5 |
| 8 | 125 | 5.4 | 7.2 | 9.0 | 7.4 | 5.8 | 6.5 | 6.5 | 8.3 | 8.6 | 9.3 | 7.2 | 12.2 | 8.3 | 6.8 | 21.6 |

Tight Rust or Millscale

Hard Coating

High Profile Range

SSPC-SP 10

Tables 2123

CP

| Operating Conditions | | Consumption Rate lbs/ft² of Blasting | | | | | | | | | | | | | | |
|----------------------|----------------|--------------------------------------|--------|------|-----------------------------|------|--------|------|--------------------------------|------------|--------|--------|--------------|---------|-------|-----|
| | | Typical Mineral Abrasive | | | Refinery & By-Product Grits | | | | Natural or Mined Grits & Sands | | | | Manufactured | | | |
| Nozzle Size | Pressure (psi) | -25% | Median | +25% | Copper | Coal | Nickel | Iron | Olivine | Staurolite | Garnet | Silica | Zircon | Alumina | Glass | |
| 6 | 90 | 1.7 | 2.2 | 2.8 | 2.3 | 1.8 | 2.0 | 2.0 | 2.6 | 2.7 | 2.9 | 2.2 | 3.8 | 2.6 | 2.1 | 6.7 |
| 7 | 90 | 1.5 | 2.0 | 2.6 | 2.1 | 1.6 | 1.8 | 1.8 | 2.3 | 2.5 | 2.7 | 2.0 | 3.5 | 2.3 | 1.9 | 6.1 |
| 8 | 90 | 1.5 | 2.0 | 2.5 | 2.0 | 1.6 | 1.8 | 1.8 | 2.3 | 2.4 | 2.6 | 2.0 | 3.3 | 2.3 | 1.9 | 5.9 |
| 6 | 100 | 1.4 | 1.9 | 2.4 | 2.0 | 1.5 | 1.7 | 1.7 | 2.2 | 2.3 | 2.5 | 1.9 | 3.3 | 2.2 | 1.8 | 5.8 |
| 7 | 100 | 1.3 | 1.8 | 2.2 | 1.8 | 1.4 | 1.6 | 1.6 | 2.0 | 2.1 | 2.3 | 1.8 | 3.0 | 2.0 | 1.7 | 5.3 |
| 8 | 100 | 1.3 | 1.7 | 2.1 | 1.7 | 1.3 | 1.5 | 1.5 | 1.9 | 2.0 | 2.2 | 1.7 | 2.9 | 1.9 | 1.6 | 5.1 |
| 6 | 110 | 1.2 | 1.6 | 2.0 | 1.7 | 1.3 | 1.5 | 1.5 | 1.9 | 1.9 | 2.1 | 1.6 | 2.8 | 1.9 | 1.5 | 4.9 |
| 7 | 110 | 1.1 | 1.5 | 1.9 | 1.5 | 1.2 | 1.4 | 1.4 | 1.7 | 1.8 | 2.0 | 1.5 | 2.6 | 1.7 | 1.4 | 4.5 |
| 8 | 110 | 1.1 | 1.4 | 1.8 | 1.5 | 1.1 | 1.3 | 1.3 | 1.6 | 1.7 | 1.9 | 1.4 | 2.4 | 1.6 | 1.4 | 4.3 |
| 6 | 125 | 1.0 | 1.3 | 1.7 | 1.4 | 1.1 | 1.2 | 1.2 | 1.5 | 1.6 | 1.7 | 1.3 | 2.3 | 1.5 | 1.3 | 4.0 |
| 7 | 125 | 0.9 | 1.2 | 1.5 | 1.3 | 1.0 | 1.1 | 1.1 | 1.4 | 1.5 | 1.6 | 1.2 | 2.1 | 1.4 | 1.2 | 3.7 |
| 8 | 125 | 0.9 | 1.2 | 1.5 | 1.2 | 0.9 | 1.1 | 1.1 | 1.3 | 1.4 | 1.5 | 1.2 | 2.0 | 1.3 | 1.1 | 3.5 |

Tight Rust or Millscale

Hard Coating

Low Profile Range

SSPC-SP 6

Tables 2131 CP

| Operating Conditions | | Consumption Rate lbs/ft² of Blasting | | | | | | | | | | | | | | |
|----------------------|----------------|--------------------------------------|--------|------|-----------------------------|------|--------|------|--------------------------------|------------|--------|--------|--------------|---------|-------|------------|
| | | Typical Mineral Abrasive | | | Refinery & By-Product Grits | | | | Natural or Mined Grits & Sands | | | | Manufactured | | | Steel Iron |
| Nozzle Size | Pressure (psi) | -25% | Median | +25% | Copper | Coal | Nickel | Iron | Olivine | Staurolite | Garnet | Silica | Zircon | Alumina | Glass | |
| 6 | 90 | 2.5 | 3.3 | 4.2 | 3.4 | 2.7 | 3.0 | 3.0 | 3.8 | 4.0 | 4.3 | 3.3 | 5.7 | 3.8 | 3.2 | 10.0 |
| 7 | 90 | 2.3 | 3.1 | 3.8 | 3.2 | 2.4 | 2.8 | 2.8 | 3.5 | 3.7 | 4.0 | 3.1 | 5.2 | 3.5 | 2.9 | 9.2 |
| 8 | 90 | 2.2 | 2.9 | 3.7 | 3.0 | 2.4 | 2.7 | 2.7 | 3.4 | 3.5 | 3.8 | 2.9 | 5.0 | 3.4 | 2.8 | 8.8 |
| 6 | 100 | 2.2 | 2.9 | 3.6 | 3.0 | 2.3 | 2.6 | 2.6 | 3.3 | 3.5 | 3.7 | 2.9 | 4.9 | 3.3 | 2.7 | 8.6 |
| 7 | 100 | 2.0 | 2.6 | 3.3 | 2.7 | 2.1 | 2.4 | 2.4 | 3.0 | 3.2 | 3.4 | 2.6 | 4.5 | 3.0 | 2.5 | 7.9 |
| 8 | 100 | 1.9 | 2.5 | 3.2 | 2.6 | 2.0 | 2.3 | 2.3 | 2.9 | 3.0 | 3.3 | 2.5 | 4.3 | 2.9 | 2.4 | 7.6 |
| 6 | 110 | 1.8 | 2.4 | 3.0 | 2.5 | 1.9 | 2.2 | 2.2 | 2.8 | 2.9 | 3.2 | 2.4 | 4.1 | 2.8 | 2.3 | 7.3 |
| 7 | 110 | 1.7 | 2.3 | 2.8 | 2.3 | 1.8 | 2.0 | 2.0 | 2.6 | 2.7 | 2.9 | 2.3 | 3.8 | 2.6 | 2.1 | 6.8 |
| 8 | 110 | 1.6 | 2.1 | 2.7 | 2.2 | 1.7 | 1.9 | 1.9 | 2.5 | 2.6 | 2.8 | 2.1 | 3.7 | 2.5 | 2.0 | 6.4 |
| 6 | 125 | 1.5 | 2.0 | 2.5 | 2.0 | 1.6 | 1.8 | 1.8 | 2.3 | 2.4 | 2.6 | 2.0 | 3.4 | 2.3 | 1.9 | 6.0 |
| 7 | 125 | 1.4 | 1.8 | 2.3 | 1.9 | 1.5 | 1.7 | 1.7 | 2.1 | 2.2 | 2.4 | 1.8 | 3.1 | 2.1 | 1.7 | 5.5 |
| 8 | 125 | 1.3 | 1.8 | 2.2 | 1.8 | 1.4 | 1.6 | 1.6 | 2.0 | 2.1 | 2.3 | 1.8 | 3.0 | 2.0 | 1.7 | 5.3 |

Tight Rust or Millscale

Hard Coating

Medium Profile Range

SSPC-SP 6

Tables 2132 CP

| Operating Conditions | | Consumption Rate lbs/ft² of Blasting | | | | | | | | | | | | | | |
|----------------------|----------------|--------------------------------------|--------|------|-----------------------------|------|--------|------|--------------------------------|------------|--------|--------|--------------|---------|-------|------|
| | | Typical Mineral Abrasive | | | Refinery & By-Product Grits | | | | Natural or Mined Grits & Sands | | | | Manufactured | | | |
| Nozzle Size | Pressure (psi) | -25% | Median | +25% | Copper | Coal | Nickel | Iron | Olivine | Staurolite | Garnet | Silica | Zircon | Alumina | Glass | |
| 6 | 90 | 5.0 | 6.7 | 8.3 | 6.9 | 5.3 | 6.0 | 6.0 | 7.7 | 8.0 | 8.7 | 6.7 | 11.3 | 7.7 | 6.3 | 20.0 |
| 7 | 90 | 4.6 | 6.1 | 7.7 | 6.3 | 4.9 | 5.5 | 5.5 | 7.1 | 7.4 | 8.0 | 6.1 | 10.4 | 7.1 | 5.8 | 18.4 |
| 8 | 90 | 4.4 | 5.9 | 7.4 | 6.1 | 4.7 | 5.3 | 5.3 | 6.8 | 7.1 | 7.7 | 5.9 | 10.0 | 6.8 | 5.6 | 17.7 |
| 6 | 100 | 4.3 | 5.8 | 7.2 | 5.9 | 4.6 | 5.2 | 5.2 | 6.6 | 6.9 | 7.5 | 5.8 | 9.8 | 6.6 | 5.5 | 17.3 |
| 7 | 100 | 4.0 | 5.3 | 6.6 | 5.4 | 4.2 | 4.8 | 4.8 | 6.1 | 6.3 | 6.9 | 5.3 | 9.0 | 6.1 | 5.0 | 15.8 |
| 8 | 100 | 3.8 | 5.1 | 6.3 | 5.2 | 4.0 | 4.6 | 4.6 | 5.8 | 6.1 | 6.6 | 5.1 | 8.6 | 5.8 | 4.8 | 15.2 |
| 6 | 110 | 3.6 | 4.9 | 6.1 | 5.0 | 3.9 | 4.4 | 4.4 | 5.6 | 5.8 | 6.3 | 4.9 | 8.3 | 5.6 | 4.6 | 14.6 |
| 7 | 110 | 3.4 | 4.5 | 5.6 | 4.6 | 3.6 | 4.1 | 4.1 | 5.2 | 5.4 | 5.9 | 4.5 | 7.7 | 5.2 | 4.3 | 13.5 |
| 8 | 110 | 3.2 | 4.3 | 5.4 | 4.4 | 3.4 | 3.9 | 3.9 | 4.9 | 5.2 | 5.6 | 4.3 | 7.3 | 4.9 | 4.1 | 12.9 |
| 6 | 125 | 3.0 | 4.0 | 5.0 | 4.1 | 3.2 | 3.6 | 3.6 | 4.6 | 4.8 | 5.2 | 4.0 | 6.8 | 4.6 | 3.8 | 11.9 |
| 7 | 125 | 2.8 | 3.7 | 4.6 | 3.8 | 2.9 | 3.3 | 3.3 | 4.2 | 4.4 | 4.8 | 3.7 | 6.2 | 4.2 | 3.5 | 11.0 |
| 8 | 125 | 2.6 | 3.5 | 4.4 | 3.6 | 2.8 | 3.2 | 3.2 | 4.0 | 4.2 | 4.6 | 3.5 | 6.0 | 4.0 | 3.3 | 10.5 |

Tight Rust or Millscale

Hard Coating

High Profile Range

SSPC-SP 6

Tables 2133

CP

| Operating Conditions | | Consumption Rate lbs/ft² of Blasting | | | | | | | | | | | | | | |
|----------------------|----------------|--------------------------------------|--------|------|-----------------------------|------|--------|------|--------------------------------|------------|--------|--------|--------------|---------|-------|------|
| | | Typical Mineral Abrasive | | | Refinery & By-Product Grits | | | | Natural or Mined Grits & Sands | | | | Manufactured | | | |
| Nozzle Size | Pressure (psi) | -25% | Median | +25% | Copper | Coal | Nickel | Iron | Olivine | Staurolite | Garnet | Silica | Zircon | Alumina | Glass | Iron |
| 6 | 90 | 1.0 | 1.3 | 1.7 | 1.4 | 1.1 | 1.2 | 1.2 | 1.5 | 1.6 | 1.7 | 1.3 | 2.3 | 1.5 | 1.3 | 4.0 |
| 7 | 90 | 0.9 | 1.2 | 1.5 | 1.3 | 1.0 | 1.1 | 1.1 | 1.4 | 1.5 | 1.6 | 1.2 | 2.1 | 1.4 | 1.2 | 3.7 |
| 8 | 90 | 0.9 | 1.2 | 1.5 | 1.2 | 0.9 | 1.1 | 1.1 | 1.4 | 1.4 | 1.5 | 1.2 | 2.0 | 1.4 | 1.1 | 3.5 |
| 6 | 100 | 0.9 | 1.2 | 1.4 | 1.2 | 0.9 | 1.0 | 1.0 | 1.3 | 1.4 | 1.5 | 1.2 | 2.0 | 1.3 | 1.1 | 3.5 |
| 7 | 100 | 0.8 | 1.1 | 1.3 | 1.1 | 0.8 | 1.0 | 1.0 | 1.2 | 1.3 | 1.4 | 1.1 | 1.8 | 1.2 | 1.0 | 3.2 |
| 8 | 100 | 0.8 | 1.0 | 1.3 | 1.0 | 0.8 | 0.9 | 0.9 | 1.2 | 1.2 | 1.3 | 1.0 | 1.7 | 1.2 | 1.0 | 3.0 |
| 6 | 110 | 0.7 | 1.0 | 1.2 | 1.0 | 0.8 | 0.9 | 0.9 | 1.1 | 1.2 | 1.3 | 1.0 | 1.7 | 1.1 | 0.9 | 2.9 |
| 7 | 110 | 0.7 | 0.9 | 1.1 | 0.9 | 0.7 | 0.8 | 0.8 | 1.0 | 1.1 | 1.2 | 0.9 | 1.5 | 1.0 | 0.9 | 2.7 |
| 8 | 110 | 0.6 | 0.9 | 1.1 | 0.9 | 0.7 | 0.8 | 0.8 | 1.0 | 1.0 | 1.1 | 0.9 | 1.5 | 1.0 | 0.8 | 2.6 |
| 6 | 125 | 0.6 | 0.8 | 1.0 | 0.8 | 0.6 | 0.7 | 0.7 | 0.9 | 1.0 | 1.0 | 0.8 | 1.4 | 0.9 | 0.8 | 2.4 |
| 7 | 125 | 0.6 | 0.7 | 0.9 | 0.8 | 0.6 | 0.7 | 0.7 | 0.8 | 0.9 | 1.0 | 0.7 | 1.2 | 0.8 | 0.7 | 2.2 |
| 8 | 125 | 0.5 | 0.7 | 0.9 | 0.7 | 0.6 | 0.6 | 0.6 | 0.8 | 0.8 | 0.9 | 0.7 | 1.2 | 0.8 | 0.7 | 2.1 |

Tight Rust or Millscale

Hard Coating

Low Profile Range

SSPC-SP 7

Tables 2141 CP

| Operating Conditions | | Consumption Rate lbs/ft² of Blasting | | | | | | | | | | | | | | |
|----------------------|----------------|--------------------------------------|--------|------|-----------------------------|------|--------|------|--------------------------------|------------|--------|--------|--------------|---------|-------|-----|
| | | Typical Mineral Abrasive | | | Refinery & By-Product Grits | | | | Natural or Mined Grits & Sands | | | | Manufactured | | | |
| Nozzle Size | Pressure (psi) | -25% | Median | +25% | Copper | Coal | Nickel | Iron | Olivine | Staurolite | Garnet | Silica | Zircon | Alumina | Glass | |
| 6 | 90 | 2.5 | 3.3 | 4.1 | 3.4 | 2.6 | 3.0 | 3.0 | 3.8 | 4.0 | 4.3 | 3.3 | 5.6 | 3.8 | 3.1 | 9.9 |
| 7 | 90 | 2.4 | 3.1 | 3.9 | 3.2 | 2.5 | 2.8 | 2.8 | 3.6 | 3.8 | 4.1 | 3.1 | 5.4 | 3.6 | 3.0 | 9.4 |
| 8 | 90 | 2.2 | 2.9 | 3.6 | 3.0 | 2.3 | 2.6 | 2.6 | 3.3 | 3.5 | 3.8 | 2.9 | 4.9 | 3.3 | 2.8 | 8.7 |
| 6 | 100 | 2.1 | 2.8 | 3.6 | 2.9 | 2.3 | 2.6 | 2.6 | 3.3 | 3.4 | 3.7 | 2.8 | 4.8 | 3.3 | 2.7 | 8.5 |
| 7 | 100 | 2.0 | 2.7 | 3.4 | 2.8 | 2.2 | 2.4 | 2.4 | 3.1 | 3.2 | 3.5 | 2.7 | 4.6 | 3.1 | 2.6 | 8.1 |
| 8 | 100 | 1.9 | 2.5 | 3.1 | 2.6 | 2.0 | 2.2 | 2.2 | 2.9 | 3.0 | 3.2 | 2.5 | 4.2 | 2.9 | 2.4 | 7.5 |
| 6 | 110 | 1.8 | 2.4 | 3.0 | 2.5 | 1.9 | 2.2 | 2.2 | 2.8 | 2.9 | 3.1 | 2.4 | 4.1 | 2.8 | 2.3 | 7.2 |
| 7 | 110 | 1.7 | 2.3 | 2.9 | 2.4 | 1.8 | 2.1 | 2.1 | 2.7 | 2.8 | 3.0 | 2.3 | 3.9 | 2.7 | 2.2 | 6.9 |
| 8 | 110 | 1.6 | 2.1 | 2.7 | 2.2 | 1.7 | 1.9 | 1.9 | 2.4 | 2.5 | 2.8 | 2.1 | 3.6 | 2.4 | 2.0 | 6.4 |
| 6 | 125 | 1.5 | 2.0 | 2.5 | 2.0 | 1.6 | 1.8 | 1.8 | 2.3 | 2.4 | 2.6 | 2.0 | 3.3 | 2.3 | 1.9 | 5.9 |
| 7 | 125 | 1.4 | 1.9 | 2.4 | 1.9 | 1.5 | 1.7 | 1.7 | 2.2 | 2.3 | 2.4 | 1.9 | 3.2 | 2.2 | 1.8 | 5.6 |
| 8 | 125 | 1.3 | 1.7 | 2.2 | 1.8 | 1.4 | 1.6 | 1.6 | 2.0 | 2.1 | 2.2 | 1.7 | 2.9 | 2.0 | 1.6 | 5.2 |

Tight Rust or Millscale

Soft Coating

Low Profile Range

SSPC-SP 5

Tables 2211 CP

| Operating Conditions | | Consumption Rate lbs/ft² of Blasting | | | | | | | | | | | | | | |
|----------------------|----------------|--------------------------------------|--------|------|-----------------------------|------|--------|------|--------------------------------|------------|--------|--------|--------------|---------|-------|------|
| | | Typical Mineral Abrasive | | | Refinery & By-Product Grits | | | | Natural or Mined Grits & Sands | | | | Manufactured | | | |
| Nozzle Size | Pressure (psi) | -25% | Median | +25% | Copper | Coal | Nickel | Iron | Olivine | Staurolite | Garnet | Silica | Zircon | Alumina | Glass | |
| 6 | 90 | 3.7 | 4.9 | 6.2 | 5.1 | 4.0 | 4.4 | 4.4 | 5.7 | 5.9 | 6.4 | 4.9 | 8.4 | 5.7 | 4.7 | 14.8 |
| 7 | 90 | 3.5 | 4.7 | 5.9 | 4.9 | 3.8 | 4.2 | 4.2 | 5.4 | 5.7 | 6.1 | 4.7 | 8.0 | 5.4 | 4.5 | 14.1 |
| 8 | 90 | 3.3 | 4.4 | 5.4 | 4.5 | 3.5 | 3.9 | 3.9 | 5.0 | 5.2 | 5.7 | 4.4 | 7.4 | 5.0 | 4.1 | 13.1 |
| 6 | 100 | 3.2 | 4.3 | 5.3 | 4.4 | 3.4 | 3.8 | 3.8 | 4.9 | 5.1 | 5.5 | 4.3 | 7.3 | 4.9 | 4.1 | 12.8 |
| 7 | 100 | 3.0 | 4.1 | 5.1 | 4.2 | 3.2 | 3.7 | 3.7 | 4.7 | 4.9 | 5.3 | 4.1 | 6.9 | 4.7 | 3.9 | 12.2 |
| 8 | 100 | 2.8 | 3.7 | 4.7 | 3.9 | 3.0 | 3.4 | 3.4 | 4.3 | 4.5 | 4.9 | 3.7 | 6.4 | 4.3 | 3.6 | 11.2 |
| 6 | 110 | 2.7 | 3.6 | 4.5 | 3.7 | 2.9 | 3.2 | 3.2 | 4.1 | 4.3 | 4.7 | 3.6 | 6.1 | 4.1 | 3.4 | 10.8 |
| 7 | 110 | 2.6 | 3.5 | 4.3 | 3.6 | 2.8 | 3.1 | 3.1 | 4.0 | 4.2 | 4.5 | 3.5 | 5.9 | 4.0 | 3.3 | 10.4 |
| 8 | 110 | 2.4 | 3.2 | 4.0 | 3.3 | 2.5 | 2.9 | 2.9 | 3.7 | 3.8 | 4.1 | 3.2 | 5.4 | 3.7 | 3.0 | 9.6 |
| 6 | 125 | 2.2 | 2.9 | 3.7 | 3.0 | 2.4 | 2.6 | 2.6 | 3.4 | 3.5 | 3.8 | 2.9 | 5.0 | 3.4 | 2.8 | 8.8 |
| 7 | 125 | 2.1 | 2.8 | 3.5 | 2.9 | 2.3 | 2.5 | 2.5 | 3.2 | 3.4 | 3.7 | 2.8 | 4.8 | 3.2 | 2.7 | 8.5 |
| 8 | 125 | 1.9 | 2.6 | 3.2 | 2.7 | 2.1 | 2.3 | 2.3 | 3.0 | 3.1 | 3.4 | 2.6 | 4.4 | 3.0 | 2.5 | 7.8 |

Tight Rust or Millscale

Soft Coating

Medium Profile Range

SSPC-SP 5

Tables 2212 CP

| Operating Conditions | | Consumption Rate lbs/ft² of Blasting | | | | | | | | | | | | | | |
|----------------------|----------------|--------------------------------------|--------|------|-----------------------------|------|--------|------|--------------------------------|------------|--------|--------|--------------|---------|-------|------|
| | | Typical Mineral Abrasive | | | Refinery & By-Product Grits | | | | Natural or Mined Grits & Sands | | | | Manufactured | | | |
| Nozzle Size | Pressure (psi) | -25% | Median | +25% | Copper | Coal | Nickel | Iron | Olivine | Staurolite | Garnet | Silica | Zircon | Alumina | Glass | |
| 6 | 90 | 7.4 | 9.9 | 12.4 | 10.2 | 7.9 | 8.9 | 8.9 | 11.4 | 11.9 | 12.9 | 9.9 | 16.9 | 11.4 | 9.4 | 29.8 |
| 7 | 90 | 7.1 | 9.5 | 11.8 | 9.7 | 7.6 | 8.5 | 8.5 | 10.9 | 11.4 | 12.3 | 9.5 | 16.1 | 10.9 | 9.0 | 28.4 |
| 8 | 90 | 6.5 | 8.7 | 10.9 | 9.0 | 7.0 | 7.8 | 7.8 | 10.0 | 10.5 | 11.3 | 8.7 | 14.8 | 10.0 | 8.3 | 26.1 |
| 6 | 100 | 6.4 | 8.5 | 10.7 | 8.8 | 6.8 | 7.7 | 7.7 | 9.8 | 10.2 | 11.1 | 8.5 | 14.5 | 9.8 | 8.1 | 25.6 |
| 7 | 100 | 6.1 | 8.1 | 10.2 | 8.4 | 6.5 | 7.3 | 7.3 | 9.3 | 9.7 | 10.6 | 8.1 | 13.8 | 9.3 | 7.7 | 24.4 |
| 8 | 100 | 5.6 | 7.5 | 9.4 | 7.7 | 6.0 | 6.7 | 6.7 | 8.6 | 9.0 | 9.7 | 7.5 | 12.7 | 8.6 | 7.1 | 22.5 |
| 6 | 110 | 5.4 | 7.2 | 9.0 | 7.4 | 5.8 | 6.5 | 6.5 | 8.3 | 8.7 | 9.4 | 7.2 | 12.3 | 8.3 | 6.9 | 21.6 |
| 7 | 110 | 5.2 | 6.9 | 8.6 | 7.1 | 5.5 | 6.2 | 6.2 | 7.9 | 8.3 | 9.0 | 6.9 | 11.7 | 7.9 | 6.6 | 20.7 |
| 8 | 110 | 4.8 | 6.4 | 8.0 | 6.6 | 5.1 | 5.7 | 5.7 | 7.3 | 7.6 | 8.3 | 6.4 | 10.8 | 7.3 | 6.0 | 19.1 |
| 6 | 125 | 4.4 | 5.9 | 7.3 | 6.1 | 4.7 | 5.3 | 5.3 | 6.8 | 7.1 | 7.6 | 5.9 | 10.0 | 6.8 | 5.6 | 17.6 |
| 7 | 125 | 4.2 | 5.6 | 7.1 | 5.8 | 4.5 | 5.1 | 5.1 | 6.5 | 6.8 | 7.3 | 5.6 | 9.6 | 6.5 | 5.4 | 16.9 |
| 8 | 125 | 3.9 | 5.2 | 6.5 | 5.3 | 4.2 | 4.7 | 4.7 | 6.0 | 6.2 | 6.7 | 5.2 | 8.8 | 6.0 | 4.9 | 15.6 |

Tight Rust or Millscale

Soft Coating

High Profile Range

SSPC-SP 5

Tables 2213 CP

| Operating Conditions | | Consumption Rate lbs/ft² of Blasting | | | | | | | | | | | | | | |
|----------------------|----------------|--------------------------------------|--------|------|-----------------------------|------|--------|------|--------------------------------|------------|--------|--------|--------------|---------|-------|-----|
| | | Typical Mineral Abrasive | | | Refinery & By-Product Grits | | | | Natural or Mined Grits & Sands | | | | Manufactured | | | |
| Nozzle Size | Pressure (psi) | -25% | Median | +25% | Copper | Coal | Nickel | Iron | Olivine | Staurolite | Garnet | Silica | Zircon | Alumina | Glass | |
| 6 | 90 | 2.2 | 3.0 | 3.7 | 3.1 | 2.4 | 2.7 | 2.7 | 3.4 | 3.6 | 3.9 | 3.0 | 5.1 | 3.4 | 2.8 | 8.9 |
| 7 | 90 | 2.2 | 2.9 | 3.7 | 3.0 | 2.3 | 2.6 | 2.6 | 3.4 | 3.5 | 3.8 | 2.9 | 5.0 | 3.4 | 2.8 | 8.8 |
| 8 | 90 | 2.0 | 2.7 | 3.4 | 2.8 | 2.1 | 2.4 | 2.4 | 3.1 | 3.2 | 3.5 | 2.7 | 4.6 | 3.1 | 2.6 | 8.1 |
| 6 | 100 | 1.9 | 2.6 | 3.2 | 2.6 | 2.0 | 2.3 | 2.3 | 2.9 | 3.1 | 3.3 | 2.6 | 4.4 | 2.9 | 2.4 | 7.7 |
| 7 | 100 | 1.9 | 2.5 | 3.1 | 2.6 | 2.0 | 2.3 | 2.3 | 2.9 | 3.0 | 3.3 | 2.5 | 4.3 | 2.9 | 2.4 | 7.5 |
| 8 | 100 | 1.7 | 2.3 | 2.9 | 2.4 | 1.8 | 2.1 | 2.1 | 2.7 | 2.8 | 3.0 | 2.3 | 3.9 | 2.7 | 2.2 | 6.9 |
| 6 | 110 | 1.6 | 2.2 | 2.7 | 2.2 | 1.7 | 1.9 | 1.9 | 2.5 | 2.6 | 2.8 | 2.2 | 3.7 | 2.5 | 2.1 | 6.5 |
| 7 | 110 | 1.6 | 2.1 | 2.7 | 2.2 | 1.7 | 1.9 | 1.9 | 2.5 | 2.6 | 2.8 | 2.1 | 3.6 | 2.5 | 2.0 | 6.4 |
| 8 | 110 | 1.5 | 2.0 | 2.5 | 2.0 | 1.6 | 1.8 | 1.8 | 2.3 | 2.4 | 2.5 | 2.0 | 3.3 | 2.3 | 1.9 | 5.9 |
| 6 | 125 | 1.3 | 1.8 | 2.2 | 1.8 | 1.4 | 1.6 | 1.6 | 2.0 | 2.1 | 2.3 | 1.8 | 3.0 | 2.0 | 1.7 | 5.3 |
| 7 | 125 | 1.3 | 1.7 | 2.2 | 1.8 | 1.4 | 1.6 | 1.6 | 2.0 | 2.1 | 2.3 | 1.7 | 3.0 | 2.0 | 1.7 | 5.2 |
| 8 | 125 | 1.2 | 1.6 | 2.0 | 1.6 | 1.3 | 1.4 | 1.4 | 1.8 | 1.9 | 2.1 | 1.6 | 2.7 | 1.8 | 1.5 | 4.8 |

Tight Rust or Millscale

Soft Coating

Low Profile Range

SSPC-SP 10

Tables 2221 CP

| Operating Conditions | | Consumption Rate lbs/ft² of Blasting | | | | | | | | | | | | | | |
|----------------------|----------------|--------------------------------------|--------|------|-----------------------------|------|--------|------|--------------------------------|------------|--------|--------|--------------|---------|-------|------|
| | | Typical Mineral Abrasive | | | Refinery & By-Product Grits | | | | Natural or Mined Grits & Sands | | | | Manufactured | | | |
| Nozzle Size | Pressure (psi) | -25% | Median | +25% | Copper | Coal | Nickel | Iron | Olivine | Staurolite | Garnet | Silica | Zircon | Alumina | Glass | |
| 6 | 90 | 3.3 | 4.5 | 5.6 | 4.6 | 3.6 | 4.0 | 4.0 | 5.1 | 5.3 | 5.8 | 4.5 | 7.6 | 5.1 | 4.2 | 13.4 |
| 7 | 90 | 3.3 | 4.4 | 5.5 | 4.5 | 3.5 | 3.9 | 3.9 | 5.0 | 5.3 | 5.7 | 4.4 | 7.5 | 5.0 | 4.2 | 13.2 |
| 8 | 90 | 3.0 | 4.0 | 5.0 | 4.1 | 3.2 | 3.6 | 3.6 | 4.6 | 4.8 | 5.2 | 4.0 | 6.8 | 4.6 | 3.8 | 12.1 |
| 6 | 100 | 2.9 | 3.8 | 4.8 | 4.0 | 3.1 | 3.5 | 3.5 | 4.4 | 4.6 | 5.0 | 3.8 | 6.5 | 4.4 | 3.6 | 11.5 |
| 7 | 100 | 2.8 | 3.8 | 4.7 | 3.9 | 3.0 | 3.4 | 3.4 | 4.3 | 4.5 | 4.9 | 3.8 | 6.4 | 4.3 | 3.6 | 11.3 |
| 8 | 100 | 2.6 | 3.5 | 4.3 | 3.6 | 2.8 | 3.1 | 3.1 | 4.0 | 4.2 | 4.5 | 3.5 | 5.9 | 4.0 | 3.3 | 10.4 |
| 6 | 110 | 2.4 | 3.3 | 4.1 | 3.3 | 2.6 | 2.9 | 2.9 | 3.7 | 3.9 | 4.2 | 3.3 | 5.5 | 3.7 | 3.1 | 9.8 |
| 7 | 110 | 2.4 | 3.2 | 4.0 | 3.3 | 2.6 | 2.9 | 2.9 | 3.7 | 3.9 | 4.2 | 3.2 | 5.5 | 3.7 | 3.1 | 9.6 |
| 8 | 110 | 2.2 | 2.9 | 3.7 | 3.0 | 2.4 | 2.6 | 2.6 | 3.4 | 3.5 | 3.8 | 2.9 | 5.0 | 3.4 | 2.8 | 8.8 |
| 6 | 125 | 2.0 | 2.6 | 3.3 | 2.7 | 2.1 | 2.4 | 2.4 | 3.0 | 3.2 | 3.4 | 2.6 | 4.5 | 3.0 | 2.5 | 7.9 |
| 7 | 125 | 2.0 | 2.6 | 3.3 | 2.7 | 2.1 | 2.4 | 2.4 | 3.0 | 3.1 | 3.4 | 2.6 | 4.5 | 3.0 | 2.5 | 7.9 |
| 8 | 125 | 1.8 | 2.4 | 3.0 | 2.5 | 1.9 | 2.2 | 2.2 | 2.8 | 2.9 | 3.1 | 2.4 | 4.1 | 2.8 | 2.3 | 7.2 |

Tight Rust or Millscale

Soft Coating

Medium Profile Range

SSPC-SP 10

Tables 2222 CP

| Operating Conditions | | Consumption Rate lbs/ft² of Blasting | | | | | | | | | | | | | | |
|----------------------|----------------|--------------------------------------|--------|------|-----------------------------|------|--------|------|--------------------------------|------------|--------|--------|--------------|---------|-------|------|
| | | Typical Mineral Abrasive | | | Refinery & By-Product Grits | | | | Natural or Mined Grits & Sands | | | | Manufactured | | | |
| Nozzle Size | Pressure (psi) | -25% | Median | +25% | Copper | Coal | Nickel | Iron | Olivine | Staurolite | Garnet | Silica | Zircon | Alumina | Glass | |
| 6 | 90 | 6.7 | 8.9 | 11.1 | 9.2 | 7.1 | 8.0 | 8.0 | 10.3 | 10.7 | 11.6 | 8.9 | 15.2 | 10.3 | 8.5 | 26.7 |
| 7 | 90 | 6.6 | 8.8 | 11.0 | 9.0 | 7.0 | 7.9 | 7.9 | 10.1 | 10.5 | 11.4 | 8.8 | 14.9 | 10.1 | 8.3 | 26.3 |
| 8 | 90 | 6.1 | 8.1 | 10.1 | 8.3 | 6.5 | 7.3 | 7.3 | 9.3 | 9.7 | 10.5 | 8.1 | 13.7 | 9.3 | 7.7 | 24.2 |
| 6 | 100 | 5.8 | 7.7 | 9.6 | 7.9 | 6.1 | 6.9 | 6.9 | 8.8 | 9.2 | 10.0 | 7.7 | 13.1 | 8.8 | 7.3 | 23.0 |
| 7 | 100 | 5.7 | 7.5 | 9.4 | 7.8 | 6.0 | 6.8 | 6.8 | 8.7 | 9.1 | 9.8 | 7.5 | 12.8 | 8.7 | 7.2 | 22.6 |
| 8 | 100 | 5.2 | 6.9 | 8.6 | 7.1 | 5.5 | 6.2 | 6.2 | 7.9 | 8.3 | 9.0 | 6.9 | 11.7 | 7.9 | 6.6 | 20.7 |
| 6 | 110 | 4.9 | 6.5 | 8.1 | 6.7 | 5.2 | 5.8 | 5.8 | 7.5 | 7.8 | 8.4 | 6.5 | 11.0 | 7.5 | 6.2 | 19.5 |
| 7 | 110 | 4.8 | 6.4 | 8.0 | 6.6 | 5.1 | 5.8 | 5.8 | 7.4 | 7.7 | 8.3 | 6.4 | 10.9 | 7.4 | 6.1 | 19.2 |
| 8 | 110 | 4.4 | 5.9 | 7.4 | 6.1 | 4.7 | 5.3 | 5.3 | 6.8 | 7.1 | 7.6 | 5.9 | 10.0 | 6.8 | 5.6 | 17.6 |
| 6 | 125 | 4.0 | 5.3 | 6.6 | 5.5 | 4.2 | 4.8 | 4.8 | 6.1 | 6.4 | 6.9 | 5.3 | 9.0 | 6.1 | 5.0 | 15.9 |
| 7 | 125 | 3.9 | 5.2 | 6.6 | 5.4 | 4.2 | 4.7 | 4.7 | 6.0 | 6.3 | 6.8 | 5.2 | 8.9 | 6.0 | 5.0 | 15.7 |
| 8 | 125 | 3.6 | 4.8 | 6.0 | 4.9 | 3.8 | 4.3 | 4.3 | 5.5 | 5.8 | 6.2 | 4.8 | 8.1 | 5.5 | 4.6 | 14.4 |

Tight Rust or Millscale

Soft Coating

High Profile Range

SSPC-SP 10

Tables 2223 CP

| Operating Conditions | | Consumption Rate lbs/ft² of Blasting | | | | | | | | | | | | | | |
|----------------------|----------------|--------------------------------------|--------|------|-----------------------------|------|--------|------|--------------------------------|------------|--------|--------|--------------|---------|-------|-----|
| | | Typical Mineral Abrasive | | | Refinery & By-Product Grits | | | | Natural or Mined Grits & Sands | | | | Manufactured | | | |
| Nozzle Size | Pressure (psi) | -25% | Median | +25% | Copper | Coal | Nickel | Iron | Olivine | Staurolite | Garnet | Silica | Zircon | Alumina | Glass | |
| 6 | 90 | 1.1 | 1.5 | 1.9 | 1.5 | 1.2 | 1.3 | 1.3 | 1.7 | 1.8 | 1.9 | 1.5 | 2.5 | 1.7 | 1.4 | 4.5 |
| 7 | 90 | 1.0 | 1.4 | 1.7 | 1.4 | 1.1 | 1.2 | 1.2 | 1.6 | 1.6 | 1.8 | 1.4 | 2.3 | 1.6 | 1.3 | 4.1 |
| 8 | 90 | 1.0 | 1.3 | 1.6 | 1.3 | 1.0 | 1.2 | 1.2 | 1.5 | 1.6 | 1.7 | 1.3 | 2.2 | 1.5 | 1.2 | 3.9 |
| 6 | 100 | 1.0 | 1.3 | 1.6 | 1.3 | 1.0 | 1.2 | 1.2 | 1.5 | 1.5 | 1.7 | 1.3 | 2.2 | 1.5 | 1.2 | 3.8 |
| 7 | 100 | 0.9 | 1.2 | 1.5 | 1.2 | 0.9 | 1.1 | 1.1 | 1.3 | 1.4 | 1.5 | 1.2 | 2.0 | 1.3 | 1.1 | 3.5 |
| 8 | 100 | 0.8 | 1.1 | 1.4 | 1.2 | 0.9 | 1.0 | 1.0 | 1.3 | 1.3 | 1.5 | 1.1 | 1.9 | 1.3 | 1.1 | 3.4 |
| 6 | 110 | 0.8 | 1.1 | 1.4 | 1.1 | 0.9 | 1.0 | 1.0 | 1.2 | 1.3 | 1.4 | 1.1 | 1.8 | 1.2 | 1.0 | 3.2 |
| 7 | 110 | 0.8 | 1.0 | 1.3 | 1.0 | 0.8 | 0.9 | 0.9 | 1.2 | 1.2 | 1.3 | 1.0 | 1.7 | 1.2 | 1.0 | 3.0 |
| 8 | 110 | 0.7 | 1.0 | 1.2 | 1.0 | 0.8 | 0.9 | 0.9 | 1.1 | 1.1 | 1.2 | 1.0 | 1.6 | 1.1 | 0.9 | 2.9 |
| 6 | 125 | 0.7 | 0.9 | 1.1 | 0.9 | 0.7 | 0.8 | 0.8 | 1.0 | 1.1 | 1.1 | 0.9 | 1.5 | 1.0 | 0.8 | 2.6 |
| 7 | 125 | 0.6 | 0.8 | 1.0 | 0.8 | 0.7 | 0.7 | 0.7 | 0.9 | 1.0 | 1.1 | 0.8 | 1.4 | 0.9 | 0.8 | 2.4 |
| 8 | 125 | 0.6 | 0.8 | 1.0 | 0.8 | 0.6 | 0.7 | 0.7 | 0.9 | 0.9 | 1.0 | 0.8 | 1.3 | 0.9 | 0.7 | 2.3 |

Tight Rust or Millscale

Soft Coating

Low Profile Range

SSPC-SP 6

Tables 2231 CP

| Operating Conditions | | Consumption Rate lbs/ft² of Blasting | | | | | | | | | | | | | | |
|----------------------|----------------|--------------------------------------|--------|------|-----------------------------|------|--------|------|--------------------------------|------------|--------|--------|--------------|---------|-------|-----|
| | | Typical Mineral Abrasive | | | Refinery & By-Product Grits | | | | Natural or Mined Grits & Sands | | | | Manufactured | | | |
| Nozzle Size | Pressure (psi) | -25% | Median | +25% | Copper | Coal | Nickel | Iron | Olivine | Staurolite | Garnet | Silica | Zircon | Alumina | Glass | |
| 6 | 90 | 1.7 | 2.2 | 2.8 | 2.3 | 1.8 | 2.0 | 2.0 | 2.6 | 2.7 | 2.9 | 2.2 | 3.8 | 2.6 | 2.1 | 6.7 |
| 7 | 90 | 1.5 | 2.0 | 2.6 | 2.1 | 1.6 | 1.8 | 1.8 | 2.3 | 2.5 | 2.7 | 2.0 | 3.5 | 2.3 | 1.9 | 6.1 |
| 8 | 90 | 1.5 | 2.0 | 2.5 | 2.0 | 1.6 | 1.8 | 1.8 | 2.3 | 2.4 | 2.6 | 2.0 | 3.3 | 2.3 | 1.9 | 5.9 |
| 6 | 100 | 1.4 | 1.9 | 2.4 | 2.0 | 1.5 | 1.7 | 1.7 | 2.2 | 2.3 | 2.5 | 1.9 | 3.3 | 2.2 | 1.8 | 5.8 |
| 7 | 100 | 1.3 | 1.8 | 2.2 | 1.8 | 1.4 | 1.6 | 1.6 | 2.0 | 2.1 | 2.3 | 1.8 | 3.0 | 2.0 | 1.7 | 5.3 |
| 8 | 100 | 1.3 | 1.7 | 2.1 | 1.7 | 1.3 | 1.5 | 1.5 | 1.9 | 2.0 | 2.2 | 1.7 | 2.9 | 1.9 | 1.6 | 5.1 |
| 6 | 110 | 1.2 | 1.6 | 2.0 | 1.7 | 1.3 | 1.5 | 1.5 | 1.9 | 1.9 | 2.1 | 1.6 | 2.8 | 1.9 | 1.5 | 4.9 |
| 7 | 110 | 1.1 | 1.5 | 1.9 | 1.5 | 1.2 | 1.4 | 1.4 | 1.7 | 1.8 | 2.0 | 1.5 | 2.6 | 1.7 | 1.4 | 4.5 |
| 8 | 110 | 1.1 | 1.4 | 1.8 | 1.5 | 1.1 | 1.3 | 1.3 | 1.6 | 1.7 | 1.9 | 1.4 | 2.4 | 1.6 | 1.4 | 4.3 |
| 6 | 125 | 1.0 | 1.3 | 1.7 | 1.4 | 1.1 | 1.2 | 1.2 | 1.5 | 1.6 | 1.7 | 1.3 | 2.3 | 1.5 | 1.3 | 4.0 |
| 7 | 125 | 0.9 | 1.2 | 1.5 | 1.3 | 1.0 | 1.1 | 1.1 | 1.4 | 1.5 | 1.6 | 1.2 | 2.1 | 1.4 | 1.2 | 3.7 |
| 8 | 125 | 0.9 | 1.2 | 1.5 | 1.2 | 0.9 | 1.1 | 1.1 | 1.3 | 1.4 | 1.5 | 1.2 | 2.0 | 1.3 | 1.1 | 3.5 |

Tight Rust or Millscale

Soft Coating

Medium Profile Range

SSPC-SP 6

Tables 2232 CP

| Operating Conditions | | Consumption Rate lbs/ft² of Blasting | | | | | | | | | | | | | | |
|----------------------|----------------|--------------------------------------|--------|------|-----------------------------|------|--------|------|--------------------------------|------------|--------|--------|--------------|---------|-------|------|
| | | Typical Mineral Abrasive | | | Refinery & By-Product Grits | | | | Natural or Mined Grits & Sands | | | | Manufactured | | | |
| Nozzle Size | Pressure (psi) | -25% | Median | +25% | Copper | Coal | Nickel | Iron | Olivine | Staurolite | Garnet | Silica | Zircon | Alumina | Glass | |
| 6 | 90 | 3.3 | 4.5 | 5.6 | 4.6 | 3.6 | 4.0 | 4.0 | 5.1 | 5.3 | 5.8 | 4.5 | 7.6 | 5.1 | 4.2 | 13.4 |
| 7 | 90 | 3.1 | 4.1 | 5.1 | 4.2 | 3.3 | 3.7 | 3.7 | 4.7 | 4.9 | 5.3 | 4.1 | 7.0 | 4.7 | 3.9 | 12.3 |
| 8 | 90 | 2.9 | 3.9 | 4.9 | 4.0 | 3.1 | 3.5 | 3.5 | 4.5 | 4.7 | 5.1 | 3.9 | 6.7 | 4.5 | 3.7 | 11.8 |
| 6 | 100 | 2.9 | 3.8 | 4.8 | 4.0 | 3.1 | 3.5 | 3.5 | 4.4 | 4.6 | 5.0 | 3.8 | 6.5 | 4.4 | 3.6 | 11.5 |
| 7 | 100 | 2.6 | 3.5 | 4.4 | 3.6 | 2.8 | 3.2 | 3.2 | 4.0 | 4.2 | 4.6 | 3.5 | 6.0 | 4.0 | 3.3 | 10.6 |
| 8 | 100 | 2.5 | 3.4 | 4.2 | 3.5 | 2.7 | 3.0 | 3.0 | 3.9 | 4.0 | 4.4 | 3.4 | 5.7 | 3.9 | 3.2 | 10.1 |
| 6 | 110 | 2.4 | 3.3 | 4.1 | 3.3 | 2.6 | 2.9 | 2.9 | 3.7 | 3.9 | 4.2 | 3.3 | 5.5 | 3.7 | 3.1 | 9.8 |
| 7 | 110 | 2.3 | 3.0 | 3.8 | 3.1 | 2.4 | 2.7 | 2.7 | 3.5 | 3.6 | 3.9 | 3.0 | 5.1 | 3.5 | 2.9 | 9.0 |
| 8 | 110 | 2.1 | 2.9 | 3.6 | 3.0 | 2.3 | 2.6 | 2.6 | 3.3 | 3.4 | 3.7 | 2.9 | 4.9 | 3.3 | 2.7 | 8.6 |
| 6 | 125 | 2.0 | 2.6 | 3.3 | 2.7 | 2.1 | 2.4 | 2.4 | 3.0 | 3.2 | 3.4 | 2.6 | 4.5 | 3.0 | 2.5 | 7.9 |
| 7 | 125 | 1.8 | 2.4 | 3.1 | 2.5 | 2.0 | 2.2 | 2.2 | 2.8 | 2.9 | 3.2 | 2.4 | 4.2 | 2.8 | 2.3 | 7.3 |
| 8 | 125 | 1.8 | 2.3 | 2.9 | 2.4 | 1.9 | 2.1 | 2.1 | 2.7 | 2.8 | 3.0 | 2.3 | 4.0 | 2.7 | 2.2 | 7.0 |

Tight Rust or Millscale

Soft Coating

High Profile Range

SSPC-SP 6

Tables 2233 CP

| Operating Conditions | | Consumption Rate lbs/ft² of Blasting | | | | | | | | | | | | | | |
|----------------------|----------------|--------------------------------------|--------|------|-----------------------------|------|--------|------|--------------------------------|------------|--------|--------|--------------|---------|-------|-----|
| | | Typical Mineral Abrasive | | | Refinery & By-Product Grits | | | | Natural or Mined Grits & Sands | | | | Manufactured | | | |
| Nozzle Size | Pressure (psi) | -25% | Median | +25% | Copper | Coal | Nickel | Iron | Olivine | Staurolite | Garnet | Silica | Zircon | Alumina | Glass | |
| 6 | 90 | 1.0 | 1.3 | 1.7 | 1.4 | 1.1 | 1.2 | 1.2 | 1.5 | 1.6 | 1.7 | 1.3 | 2.3 | 1.5 | 1.3 | 4.0 |
| 7 | 90 | 0.9 | 1.2 | 1.5 | 1.3 | 1.0 | 1.1 | 1.1 | 1.4 | 1.5 | 1.6 | 1.2 | 2.1 | 1.4 | 1.2 | 3.7 |
| 8 | 90 | 0.9 | 1.2 | 1.5 | 1.2 | 0.9 | 1.1 | 1.1 | 1.4 | 1.4 | 1.5 | 1.2 | 2.0 | 1.4 | 1.1 | 3.5 |
| 6 | 100 | 0.9 | 1.2 | 1.4 | 1.2 | 0.9 | 1.0 | 1.0 | 1.3 | 1.4 | 1.5 | 1.2 | 2.0 | 1.3 | 1.1 | 3.5 |
| 7 | 100 | 0.8 | 1.1 | 1.3 | 1.1 | 0.8 | 1.0 | 1.0 | 1.2 | 1.3 | 1.4 | 1.1 | 1.8 | 1.2 | 1.0 | 3.2 |
| 8 | 100 | 0.8 | 1.0 | 1.3 | 1.0 | 0.8 | 0.9 | 0.9 | 1.2 | 1.2 | 1.3 | 1.0 | 1.7 | 1.2 | 1.0 | 3.0 |
| 6 | 110 | 0.7 | 1.0 | 1.2 | 1.0 | 0.8 | 0.9 | 0.9 | 1.1 | 1.2 | 1.3 | 1.0 | 1.7 | 1.1 | 0.9 | 2.9 |
| 7 | 110 | 0.7 | 0.9 | 1.1 | 0.9 | 0.7 | 0.8 | 0.8 | 1.0 | 1.1 | 1.2 | 0.9 | 1.5 | 1.0 | 0.9 | 2.7 |
| 8 | 110 | 0.6 | 0.9 | 1.1 | 0.9 | 0.7 | 0.8 | 0.8 | 1.0 | 1.0 | 1.1 | 0.9 | 1.5 | 1.0 | 0.8 | 2.6 |
| 6 | 125 | 0.6 | 0.8 | 1.0 | 0.8 | 0.6 | 0.7 | 0.7 | 0.9 | 1.0 | 1.0 | 0.8 | 1.4 | 0.9 | 0.8 | 2.4 |
| 7 | 125 | 0.6 | 0.7 | 0.9 | 0.8 | 0.6 | 0.7 | 0.7 | 0.8 | 0.9 | 1.0 | 0.7 | 1.2 | 0.8 | 0.7 | 2.2 |
| 8 | 125 | 0.5 | 0.7 | 0.9 | 0.7 | 0.6 | 0.6 | 0.6 | 0.8 | 0.8 | 0.9 | 0.7 | 1.2 | 0.8 | 0.7 | 2.1 |

Tight Rust or Millscale

Soft Coating

Low Profile Range

SSPC-SP 7

Tables

2241

CP

| Operating Conditions | | Consumption Rate lbs/ft² of Blasting | | | | | | | | | | | | | | |
|----------------------|----------------|--------------------------------------|--------|------|-----------------------------|------|--------|------|--------------------------------|------------|--------|--------|--------------|---------|-------|------|
| | | Typical Mineral Abrasive | | | Refinery & By-Product Grits | | | | Natural or Mined Grits & Sands | | | | Manufactured | | | |
| Nozzle Size | Pressure (psi) | -25% | Median | +25% | Copper | Coal | Nickel | Iron | Olivine | Staurolite | Garnet | Silica | Zircon | Alumina | Glass | Iron |
| 6 | 90 | 3.7 | 4.9 | 6.2 | 5.1 | 4.0 | 4.4 | 4.4 | 5.7 | 5.9 | 6.4 | 4.9 | 8.4 | 5.7 | 4.7 | 14.8 |
| 7 | 90 | 3.5 | 4.7 | 5.9 | 4.9 | 3.8 | 4.2 | 4.2 | 5.4 | 5.7 | 6.1 | 4.7 | 8.0 | 5.4 | 4.5 | 14.1 |
| 8 | 90 | 3.3 | 4.4 | 5.4 | 4.5 | 3.5 | 3.9 | 3.9 | 5.0 | 5.2 | 5.7 | 4.4 | 7.4 | 5.0 | 4.1 | 13.1 |
| 6 | 100 | 3.2 | 4.3 | 5.3 | 4.4 | 3.4 | 3.8 | 3.8 | 4.9 | 5.1 | 5.5 | 4.3 | 7.3 | 4.9 | 4.1 | 12.8 |
| 7 | 100 | 3.0 | 4.1 | 5.1 | 4.2 | 3.2 | 3.7 | 3.7 | 4.7 | 4.9 | 5.3 | 4.1 | 6.9 | 4.7 | 3.9 | 12.2 |
| 8 | 100 | 2.8 | 3.7 | 4.7 | 3.9 | 3.0 | 3.4 | 3.4 | 4.3 | 4.5 | 4.9 | 3.7 | 6.4 | 4.3 | 3.6 | 11.2 |
| 6 | 110 | 2.7 | 3.6 | 4.5 | 3.7 | 2.9 | 3.2 | 3.2 | 4.1 | 4.3 | 4.7 | 3.6 | 6.1 | 4.1 | 3.4 | 10.8 |
| 7 | 110 | 2.6 | 3.5 | 4.3 | 3.6 | 2.8 | 3.1 | 3.1 | 4.0 | 4.2 | 4.5 | 3.5 | 5.9 | 4.0 | 3.3 | 10.4 |
| 8 | 110 | 2.4 | 3.2 | 4.0 | 3.3 | 2.5 | 2.9 | 2.9 | 3.7 | 3.8 | 4.1 | 3.2 | 5.4 | 3.7 | 3.0 | 9.6 |
| 6 | 125 | 2.2 | 2.9 | 3.7 | 3.0 | 2.4 | 2.6 | 2.6 | 3.4 | 3.5 | 3.8 | 2.9 | 5.0 | 3.4 | 2.8 | 8.8 |
| 7 | 125 | 2.1 | 2.8 | 3.5 | 2.9 | 2.3 | 2.5 | 2.5 | 3.2 | 3.4 | 3.7 | 2.8 | 4.8 | 3.2 | 2.7 | 8.5 |
| 8 | 125 | 1.9 | 2.6 | 3.2 | 2.7 | 2.1 | 2.3 | 2.3 | 3.0 | 3.1 | 3.4 | 2.6 | 4.4 | 3.0 | 2.5 | 7.8 |

Tight Rust or Millscale

New Steel

Low Profile Range

SSPC-SP 5

Tables 2311 CP

| Operating Conditions | | Consumption Rate lbs/ft² of Blasting | | | | | | | | | | | | | | |
|----------------------|----------------|--------------------------------------|--------|------|-----------------------------|------|--------|------|--------------------------------|------------|--------|--------|--------------|---------|-------|------|
| | | Typical Mineral Abrasive | | | Refinery & By-Product Grits | | | | Natural or Mined Grits & Sands | | | | Manufactured | | | |
| Nozzle Size | Pressure (psi) | -25% | Median | +25% | Copper | Coal | Nickel | Iron | Olivine | Staurolite | Garnet | Silica | Zircon | Alumina | Glass | |
| 6 | 90 | 3.7 | 4.9 | 6.2 | 5.1 | 4.0 | 4.4 | 4.4 | 5.7 | 5.9 | 6.4 | 4.9 | 8.4 | 5.7 | 4.7 | 14.8 |
| 7 | 90 | 3.5 | 4.7 | 5.9 | 4.9 | 3.8 | 4.2 | 4.2 | 5.4 | 5.7 | 6.1 | 4.7 | 8.0 | 5.4 | 4.5 | 14.1 |
| 8 | 90 | 3.3 | 4.4 | 5.4 | 4.5 | 3.5 | 3.9 | 3.9 | 5.0 | 5.2 | 5.7 | 4.4 | 7.4 | 5.0 | 4.1 | 13.1 |
| 6 | 100 | 3.2 | 4.3 | 5.3 | 4.4 | 3.4 | 3.8 | 3.8 | 4.9 | 5.1 | 5.5 | 4.3 | 7.3 | 4.9 | 4.1 | 12.8 |
| 7 | 100 | 3.0 | 4.1 | 5.1 | 4.2 | 3.2 | 3.7 | 3.7 | 4.7 | 4.9 | 5.3 | 4.1 | 6.9 | 4.7 | 3.9 | 12.2 |
| 8 | 100 | 2.8 | 3.7 | 4.7 | 3.9 | 3.0 | 3.4 | 3.4 | 4.3 | 4.5 | 4.9 | 3.7 | 6.4 | 4.3 | 3.6 | 11.2 |
| 6 | 110 | 2.7 | 3.6 | 4.5 | 3.7 | 2.9 | 3.2 | 3.2 | 4.1 | 4.3 | 4.7 | 3.6 | 6.1 | 4.1 | 3.4 | 10.8 |
| 7 | 110 | 2.6 | 3.5 | 4.3 | 3.6 | 2.8 | 3.1 | 3.1 | 4.0 | 4.2 | 4.5 | 3.5 | 5.9 | 4.0 | 3.3 | 10.4 |
| 8 | 110 | 2.4 | 3.2 | 4.0 | 3.3 | 2.5 | 2.9 | 2.9 | 3.7 | 3.8 | 4.1 | 3.2 | 5.4 | 3.7 | 3.0 | 9.6 |
| 6 | 125 | 2.2 | 2.9 | 3.7 | 3.0 | 2.4 | 2.6 | 2.6 | 3.4 | 3.5 | 3.8 | 2.9 | 5.0 | 3.4 | 2.8 | 8.8 |
| 7 | 125 | 2.1 | 2.8 | 3.5 | 2.9 | 2.3 | 2.5 | 2.5 | 3.2 | 3.4 | 3.7 | 2.8 | 4.8 | 3.2 | 2.7 | 8.5 |
| 8 | 125 | 1.9 | 2.6 | 3.2 | 2.7 | 2.1 | 2.3 | 2.3 | 3.0 | 3.1 | 3.4 | 2.6 | 4.4 | 3.0 | 2.5 | 7.8 |

Tight Rust or Millscale

New Steel

Low Profile Range

SSPC-SP 5

Tables 2311 CP

| Operating Conditions | | Consumption Rate lbs/ft² of Blasting | | | | | | | | | | | | | | |
|----------------------|----------------|--------------------------------------|--------|------|-----------------------------|------|--------|------|--------------------------------|------------|--------|--------|--------------|---------|-------|------------|
| | | Typical Mineral Abrasive | | | Refinery & By-Product Grits | | | | Natural or Mined Grits & Sands | | | | Manufactured | | | Steel Iron |
| Nozzle Size | Pressure (psi) | -25% | Median | +25% | Copper | Coal | Nickel | Iron | Olivine | Staurolite | Garnet | Silica | Zircon | Alumina | Glass | |
| 6 | 90 | 5.6 | 7.4 | 9.3 | 7.6 | 5.9 | 6.7 | 6.7 | 8.5 | 8.9 | 9.6 | 7.4 | 12.6 | 8.5 | 7.0 | 22.2 |
| 7 | 90 | 5.3 | 7.1 | 8.9 | 7.3 | 5.7 | 6.4 | 6.4 | 8.2 | 8.5 | 9.2 | 7.1 | 12.1 | 8.2 | 6.7 | 21.3 |
| 8 | 90 | 4.9 | 6.5 | 8.2 | 6.7 | 5.2 | 5.9 | 5.9 | 7.5 | 7.8 | 8.5 | 6.5 | 11.1 | 7.5 | 6.2 | 19.6 |
| 6 | 100 | 4.8 | 6.4 | 8.0 | 6.6 | 5.1 | 5.8 | 5.8 | 7.4 | 7.7 | 8.3 | 6.4 | 10.9 | 7.4 | 6.1 | 19.2 |
| 7 | 100 | 4.6 | 6.1 | 7.6 | 6.3 | 4.9 | 5.5 | 5.5 | 7.0 | 7.3 | 7.9 | 6.1 | 10.4 | 7.0 | 5.8 | 18.3 |
| 8 | 100 | 4.2 | 5.6 | 7.0 | 5.8 | 4.5 | 5.1 | 5.1 | 6.5 | 6.7 | 7.3 | 5.6 | 9.6 | 6.5 | 5.3 | 16.9 |
| 6 | 110 | 4.1 | 5.4 | 6.8 | 5.6 | 4.3 | 4.9 | 4.9 | 6.2 | 6.5 | 7.1 | 5.4 | 9.2 | 6.2 | 5.2 | 16.3 |
| 7 | 110 | 3.9 | 5.2 | 6.5 | 5.3 | 4.1 | 4.7 | 4.7 | 6.0 | 6.2 | 6.7 | 5.2 | 8.8 | 6.0 | 4.9 | 15.5 |
| 8 | 110 | 3.6 | 4.8 | 6.0 | 4.9 | 3.8 | 4.3 | 4.3 | 5.5 | 5.7 | 6.2 | 4.8 | 8.1 | 5.5 | 4.5 | 14.3 |
| 6 | 125 | 3.3 | 4.4 | 5.5 | 4.5 | 3.5 | 4.0 | 4.0 | 5.1 | 5.3 | 5.7 | 4.4 | 7.5 | 5.1 | 4.2 | 13.2 |
| 7 | 125 | 3.2 | 4.2 | 5.3 | 4.4 | 3.4 | 3.8 | 3.8 | 4.9 | 5.1 | 5.5 | 4.2 | 7.2 | 4.9 | 4.0 | 12.7 |
| 8 | 125 | 2.9 | 3.9 | 4.9 | 4.0 | 3.1 | 3.5 | 3.5 | 4.5 | 4.7 | 5.1 | 3.9 | 6.6 | 4.5 | 3.7 | 11.7 |

Tight Rust or Millscale

New Steel

Medium Profile Range

SSPC-SP 5

Tables 2312 CP

| Operating Conditions | | Consumption Rate lbs/ft² of Blasting | | | | | | | | | | | | | | |
|----------------------|----------------|--------------------------------------|--------|------|-----------------------------|------|--------|------|--------------------------------|------------|--------|--------|--------------|---------|-------|------------|
| | | Typical Mineral Abrasive | | | Refinery & By-Product Grits | | | | Natural or Mined Grits & Sands | | | | Manufactured | | | Steel Iron |
| Nozzle Size | Pressure (psi) | -25% | Median | +25% | Copper | Coal | Nickel | Iron | Olivine | Staurolite | Garnet | Silica | Zircon | Alumina | Glass | |
| 6 | 90 | 5.6 | 7.4 | 9.3 | 7.6 | 5.9 | 6.7 | 6.7 | 8.5 | 8.9 | 9.6 | 7.4 | 12.6 | 8.5 | 7.0 | 22.2 |
| 7 | 90 | 5.3 | 7.1 | 8.9 | 7.3 | 5.7 | 6.4 | 6.4 | 8.2 | 8.5 | 9.2 | 7.1 | 12.1 | 8.2 | 6.7 | 21.3 |
| 8 | 90 | 4.9 | 6.5 | 8.2 | 6.7 | 5.2 | 5.9 | 5.9 | 7.5 | 7.8 | 8.5 | 6.5 | 11.1 | 7.5 | 6.2 | 19.6 |
| 6 | 100 | 4.8 | 6.4 | 8.0 | 6.6 | 5.1 | 5.8 | 5.8 | 7.4 | 7.7 | 8.3 | 6.4 | 10.9 | 7.4 | 6.1 | 19.2 |
| 7 | 100 | 4.6 | 6.1 | 7.6 | 6.3 | 4.9 | 5.5 | 5.5 | 7.0 | 7.3 | 7.9 | 6.1 | 10.4 | 7.0 | 5.8 | 18.3 |
| 8 | 100 | 4.2 | 5.6 | 7.0 | 5.8 | 4.5 | 5.1 | 5.1 | 6.5 | 6.7 | 7.3 | 5.6 | 9.6 | 6.5 | 5.3 | 16.9 |
| 6 | 110 | 4.1 | 5.4 | 6.8 | 5.6 | 4.3 | 4.9 | 4.9 | 6.2 | 6.5 | 7.1 | 5.4 | 9.2 | 6.2 | 5.2 | 16.3 |
| 7 | 110 | 3.9 | 5.2 | 6.5 | 5.3 | 4.1 | 4.7 | 4.7 | 6.0 | 6.2 | 6.7 | 5.2 | 8.8 | 6.0 | 4.9 | 15.5 |
| 8 | 110 | 3.6 | 4.8 | 6.0 | 4.9 | 3.8 | 4.3 | 4.3 | 5.5 | 5.7 | 6.2 | 4.8 | 8.1 | 5.5 | 4.5 | 14.3 |
| 6 | 125 | 3.3 | 4.4 | 5.5 | 4.5 | 3.5 | 4.0 | 4.0 | 5.1 | 5.3 | 5.7 | 4.4 | 7.5 | 5.1 | 4.2 | 13.2 |
| 7 | 125 | 3.2 | 4.2 | 5.3 | 4.4 | 3.4 | 3.8 | 3.8 | 4.9 | 5.1 | 5.5 | 4.2 | 7.2 | 4.9 | 4.0 | 12.7 |
| 8 | 125 | 2.9 | 3.9 | 4.9 | 4.0 | 3.1 | 3.5 | 3.5 | 4.5 | 4.7 | 5.1 | 3.9 | 6.6 | 4.5 | 3.7 | 11.7 |

Tight Rust or Millscale

New Steel

Medium Profile Range

SSPC-SP 5

Tables 2312 CP

| Operating Conditions | | Consumption Rate lbs/ft² of Blasting | | | | | | | | | | | | | | |
|----------------------|----------------|--------------------------------------|--------|------|-----------------------------|------|--------|------|--------------------------------|------------|--------|--------|--------------|---------|-------|------|
| | | Typical Mineral Abrasive | | | Refinery & By-Product Grits | | | | Natural or Mined Grits & Sands | | | | Manufactured | | | |
| Nozzle Size | Pressure (psi) | -25% | Median | +25% | Copper | Coal | Nickel | Iron | Olivine | Staurolite | Garnet | Silica | Zircon | Alumina | Glass | |
| 6 | 90 | 11.1 | 14.8 | 18.5 | 15.3 | 11.9 | 13.3 | 13.3 | 17.0 | 17.8 | 19.3 | 14.8 | 25.2 | 17.0 | 14.1 | 44.5 |
| 7 | 90 | 10.6 | 14.2 | 17.7 | 14.6 | 11.4 | 12.8 | 12.8 | 16.3 | 17.0 | 18.5 | 14.2 | 24.1 | 16.3 | 13.5 | 42.6 |
| 8 | 90 | 9.8 | 13.1 | 16.3 | 13.5 | 10.5 | 11.8 | 11.8 | 15.0 | 15.7 | 17.0 | 13.1 | 22.2 | 15.0 | 12.4 | 39.2 |
| 6 | 100 | 9.6 | 12.8 | 16.0 | 13.2 | 10.2 | 11.5 | 11.5 | 14.7 | 15.4 | 16.6 | 12.8 | 21.8 | 14.7 | 12.2 | 38.4 |
| 7 | 100 | 9.1 | 12.2 | 15.2 | 12.6 | 9.7 | 11.0 | 11.0 | 14.0 | 14.6 | 15.8 | 12.2 | 20.7 | 14.0 | 11.6 | 36.6 |
| 8 | 100 | 8.4 | 11.2 | 14.1 | 11.6 | 9.0 | 10.1 | 10.1 | 12.9 | 13.5 | 14.6 | 11.2 | 19.1 | 12.9 | 10.7 | 33.7 |
| 6 | 110 | 8.1 | 10.8 | 13.6 | 11.2 | 8.7 | 9.8 | 9.8 | 12.5 | 13.0 | 14.1 | 10.8 | 18.4 | 12.5 | 10.3 | 32.5 |
| 7 | 110 | 7.8 | 10.4 | 12.9 | 10.7 | 8.3 | 9.3 | 9.3 | 11.9 | 12.4 | 13.5 | 10.4 | 17.6 | 11.9 | 9.8 | 31.1 |
| 8 | 110 | 7.2 | 9.6 | 12.0 | 9.9 | 7.7 | 8.6 | 8.6 | 11.0 | 11.5 | 12.4 | 9.6 | 16.3 | 11.0 | 9.1 | 28.7 |
| 6 | 125 | 6.6 | 8.8 | 11.0 | 9.1 | 7.1 | 7.9 | 7.9 | 10.1 | 10.6 | 11.5 | 8.8 | 15.0 | 10.1 | 8.4 | 26.4 |
| 7 | 125 | 6.4 | 8.5 | 10.6 | 8.7 | 6.8 | 7.6 | 7.6 | 9.7 | 10.2 | 11.0 | 8.5 | 14.4 | 9.7 | 8.0 | 25.4 |
| 8 | 125 | 5.8 | 7.8 | 9.7 | 8.0 | 6.2 | 7.0 | 7.0 | 8.9 | 9.3 | 10.1 | 7.8 | 13.2 | 8.9 | 7.4 | 23.3 |

Tight Rust or Millscale

New Steel

High Profile Range

SSPC-SP 5

Tables 2313 CP

| Operating Conditions | | Consumption Rate lbs/ft² of Blasting | | | | | | | | | | | | | | |
|----------------------|----------------|--------------------------------------|--------|------|-----------------------------|------|--------|------|--------------------------------|------------|--------|--------|--------------|---------|-------|------|
| | | Typical Mineral Abrasive | | | Refinery & By-Product Grits | | | | Natural or Mined Grits & Sands | | | | Manufactured | | | |
| Nozzle Size | Pressure (psi) | -25% | Median | +25% | Copper | Coal | Nickel | Iron | Olivine | Staurolite | Garnet | Silica | Zircon | Alumina | Glass | |
| 6 | 90 | 11.1 | 14.8 | 18.5 | 15.3 | 11.9 | 13.3 | 13.3 | 17.0 | 17.8 | 19.3 | 14.8 | 25.2 | 17.0 | 14.1 | 44.5 |
| 7 | 90 | 10.6 | 14.2 | 17.7 | 14.6 | 11.4 | 12.8 | 12.8 | 16.3 | 17.0 | 18.5 | 14.2 | 24.1 | 16.3 | 13.5 | 42.6 |
| 8 | 90 | 9.8 | 13.1 | 16.3 | 13.5 | 10.5 | 11.8 | 11.8 | 15.0 | 15.7 | 17.0 | 13.1 | 22.2 | 15.0 | 12.4 | 39.2 |
| 6 | 100 | 9.6 | 12.8 | 16.0 | 13.2 | 10.2 | 11.5 | 11.5 | 14.7 | 15.4 | 16.6 | 12.8 | 21.8 | 14.7 | 12.2 | 38.4 |
| 7 | 100 | 9.1 | 12.2 | 15.2 | 12.6 | 9.7 | 11.0 | 11.0 | 14.0 | 14.6 | 15.8 | 12.2 | 20.7 | 14.0 | 11.6 | 36.6 |
| 8 | 100 | 8.4 | 11.2 | 14.1 | 11.6 | 9.0 | 10.1 | 10.1 | 12.9 | 13.5 | 14.6 | 11.2 | 19.1 | 12.9 | 10.7 | 33.7 |
| 6 | 110 | 8.1 | 10.8 | 13.6 | 11.2 | 8.7 | 9.8 | 9.8 | 12.5 | 13.0 | 14.1 | 10.8 | 18.4 | 12.5 | 10.3 | 32.5 |
| 7 | 110 | 7.8 | 10.4 | 12.9 | 10.7 | 8.3 | 9.3 | 9.3 | 11.9 | 12.4 | 13.5 | 10.4 | 17.6 | 11.9 | 9.8 | 31.1 |
| 8 | 110 | 7.2 | 9.6 | 12.0 | 9.9 | 7.7 | 8.6 | 8.6 | 11.0 | 11.5 | 12.4 | 9.6 | 16.3 | 11.0 | 9.1 | 28.7 |
| 6 | 125 | 6.6 | 8.8 | 11.0 | 9.1 | 7.1 | 7.9 | 7.9 | 10.1 | 10.6 | 11.5 | 8.8 | 15.0 | 10.1 | 8.4 | 26.4 |
| 7 | 125 | 6.4 | 8.5 | 10.6 | 8.7 | 6.8 | 7.6 | 7.6 | 9.7 | 10.2 | 11.0 | 8.5 | 14.4 | 9.7 | 8.0 | 25.4 |
| 8 | 125 | 5.8 | 7.8 | 9.7 | 8.0 | 6.2 | 7.0 | 7.0 | 8.9 | 9.3 | 10.1 | 7.8 | 13.2 | 8.9 | 7.4 | 23.3 |

Tight Rust or Millscale

New Steel

High Profile Range

SSPC-SP 5

Tables 2313 CP

| Operating Conditions | | Consumption Rate lbs/ft² of Blasting | | | | | | | | | | | | | | |
|----------------------|----------------|--------------------------------------|--------|------|-----------------------------|------|--------|------|--------------------------------|------------|--------|--------|--------------|---------|-------|------|
| | | Typical Mineral Abrasive | | | Refinery & By-Product Grits | | | | Natural or Mined Grits & Sands | | | | Manufactured | | | |
| Nozzle Size | Pressure (psi) | -25% | Median | +25% | Copper | Coal | Nickel | Iron | Olivine | Staurolite | Garnet | Silica | Zircon | Alumina | Glass | Iron |
| 6 | 90 | 3.3 | 4.5 | 5.6 | 4.6 | 3.6 | 4.0 | 4.0 | 5.1 | 5.3 | 5.8 | 4.5 | 7.6 | 5.1 | 4.2 | 13.4 |
| 7 | 90 | 3.3 | 4.4 | 5.5 | 4.5 | 3.5 | 3.9 | 3.9 | 5.0 | 5.3 | 5.7 | 4.4 | 7.5 | 5.0 | 4.2 | 13.2 |
| 8 | 90 | 3.0 | 4.0 | 5.0 | 4.1 | 3.2 | 3.6 | 3.6 | 4.6 | 4.8 | 5.2 | 4.0 | 6.8 | 4.6 | 3.8 | 12.1 |
| 6 | 100 | 2.9 | 3.8 | 4.8 | 4.0 | 3.1 | 3.5 | 3.5 | 4.4 | 4.6 | 5.0 | 3.8 | 6.5 | 4.4 | 3.6 | 11.5 |
| 7 | 100 | 2.8 | 3.8 | 4.7 | 3.9 | 3.0 | 3.4 | 3.4 | 4.3 | 4.5 | 4.9 | 3.8 | 6.4 | 4.3 | 3.6 | 11.3 |
| 8 | 100 | 2.6 | 3.5 | 4.3 | 3.6 | 2.8 | 3.1 | 3.1 | 4.0 | 4.2 | 4.5 | 3.5 | 5.9 | 4.0 | 3.3 | 10.4 |
| 6 | 110 | 2.4 | 3.3 | 4.1 | 3.3 | 2.6 | 2.9 | 2.9 | 3.7 | 3.9 | 4.2 | 3.3 | 5.5 | 3.7 | 3.1 | 9.8 |
| 7 | 110 | 2.4 | 3.2 | 4.0 | 3.3 | 2.6 | 2.9 | 2.9 | 3.7 | 3.9 | 4.2 | 3.2 | 5.5 | 3.7 | 3.1 | 9.6 |
| 8 | 110 | 2.2 | 2.9 | 3.7 | 3.0 | 2.4 | 2.6 | 2.6 | 3.4 | 3.5 | 3.8 | 2.9 | 5.0 | 3.4 | 2.8 | 8.8 |
| 6 | 125 | 2.0 | 2.6 | 3.3 | 2.7 | 2.1 | 2.4 | 2.4 | 3.0 | 3.2 | 3.4 | 2.6 | 4.5 | 3.0 | 2.5 | 7.9 |
| 7 | 125 | 2.0 | 2.6 | 3.3 | 2.7 | 2.1 | 2.4 | 2.4 | 3.0 | 3.1 | 3.4 | 2.6 | 4.5 | 3.0 | 2.5 | 7.9 |
| 8 | 125 | 1.8 | 2.4 | 3.0 | 2.5 | 1.9 | 2.2 | 2.2 | 2.8 | 2.9 | 3.1 | 2.4 | 4.1 | 2.8 | 2.3 | 7.2 |

Tight Rust or Millscale

New Steel

Low Profile Range

SSPC-SP 10

Tables 2321 CP

| Operating Conditions | | Consumption Rate lbs/ft² of Blasting | | | | | | | | | | | | | | |
|----------------------|----------------|--------------------------------------|--------|------|-----------------------------|------|--------|------|--------------------------------|------------|--------|--------|--------------|---------|-------|------|
| | | Typical Mineral Abrasive | | | Refinery & By-Product Grits | | | | Natural or Mined Grits & Sands | | | | Manufactured | | | |
| Nozzle Size | Pressure (psi) | -25% | Median | +25% | Copper | Coal | Nickel | Iron | Olivine | Staurolite | Garnet | Silica | Zircon | Alumina | Glass | Iron |
| 6 | 90 | 3.3 | 4.5 | 5.6 | 4.6 | 3.6 | 4.0 | 4.0 | 5.1 | 5.3 | 5.8 | 4.5 | 7.6 | 5.1 | 4.2 | 13.4 |
| 7 | 90 | 3.3 | 4.4 | 5.5 | 4.5 | 3.5 | 3.9 | 3.9 | 5.0 | 5.3 | 5.7 | 4.4 | 7.5 | 5.0 | 4.2 | 13.2 |
| 8 | 90 | 3.0 | 4.0 | 5.0 | 4.1 | 3.2 | 3.6 | 3.6 | 4.6 | 4.8 | 5.2 | 4.0 | 6.8 | 4.6 | 3.8 | 12.1 |
| 6 | 100 | 2.9 | 3.8 | 4.8 | 4.0 | 3.1 | 3.5 | 3.5 | 4.4 | 4.6 | 5.0 | 3.8 | 6.5 | 4.4 | 3.6 | 11.5 |
| 7 | 100 | 2.8 | 3.8 | 4.7 | 3.9 | 3.0 | 3.4 | 3.4 | 4.3 | 4.5 | 4.9 | 3.8 | 6.4 | 4.3 | 3.6 | 11.3 |
| 8 | 100 | 2.6 | 3.5 | 4.3 | 3.6 | 2.8 | 3.1 | 3.1 | 4.0 | 4.2 | 4.5 | 3.5 | 5.9 | 4.0 | 3.3 | 10.4 |
| 6 | 110 | 2.4 | 3.3 | 4.1 | 3.3 | 2.6 | 2.9 | 2.9 | 3.7 | 3.9 | 4.2 | 3.3 | 5.5 | 3.7 | 3.1 | 9.8 |
| 7 | 110 | 2.4 | 3.2 | 4.0 | 3.3 | 2.6 | 2.9 | 2.9 | 3.7 | 3.9 | 4.2 | 3.2 | 5.5 | 3.7 | 3.1 | 9.6 |
| 8 | 110 | 2.2 | 2.9 | 3.7 | 3.0 | 2.4 | 2.6 | 2.6 | 3.4 | 3.5 | 3.8 | 2.9 | 5.0 | 3.4 | 2.8 | 8.8 |
| 6 | 125 | 2.0 | 2.6 | 3.3 | 2.7 | 2.1 | 2.4 | 2.4 | 3.0 | 3.2 | 3.4 | 2.6 | 4.5 | 3.0 | 2.5 | 7.9 |
| 7 | 125 | 2.0 | 2.6 | 3.3 | 2.7 | 2.1 | 2.4 | 2.4 | 3.0 | 3.1 | 3.4 | 2.6 | 4.5 | 3.0 | 2.5 | 7.9 |
| 8 | 125 | 1.8 | 2.4 | 3.0 | 2.5 | 1.9 | 2.2 | 2.2 | 2.8 | 2.9 | 3.1 | 2.4 | 4.1 | 2.8 | 2.3 | 7.2 |

Tight Rust or Millscale

New Steel

Low Profile Range

SSPC-SP 10

Tables 2321 CP

| Operating Conditions | | Consumption Rate lbs/ft² of Blasting | | | | | | | | | | | | | | |
|----------------------|----------------|--------------------------------------|--------|------|-----------------------------|------|--------|------|--------------------------------|------------|--------|--------|--------------|---------|-------|------|
| | | Typical Mineral Abrasive | | | Refinery & By-Product Grits | | | | Natural or Mined Grits & Sands | | | | Manufactured | | | |
| Nozzle Size | Pressure (psi) | -25% | Median | +25% | Copper | Coal | Nickel | Iron | Olivine | Staurolite | Garnet | Silica | Zircon | Alumina | Glass | |
| 6 | 90 | 5.0 | 6.7 | 8.3 | 6.9 | 5.3 | 6.0 | 6.0 | 7.7 | 8.0 | 8.7 | 6.7 | 11.3 | 7.7 | 6.3 | 20.0 |
| 7 | 90 | 4.9 | 6.6 | 8.2 | 6.8 | 5.3 | 5.9 | 5.9 | 7.6 | 7.9 | 8.6 | 6.6 | 11.2 | 7.6 | 6.3 | 19.7 |
| 8 | 90 | 4.5 | 6.0 | 7.6 | 6.2 | 4.8 | 5.4 | 5.4 | 7.0 | 7.3 | 7.9 | 6.0 | 10.3 | 7.0 | 5.7 | 18.1 |
| 6 | 100 | 4.3 | 5.8 | 7.2 | 5.9 | 4.6 | 5.2 | 5.2 | 6.6 | 6.9 | 7.5 | 5.8 | 9.8 | 6.6 | 5.5 | 17.3 |
| 7 | 100 | 4.2 | 5.7 | 7.1 | 5.8 | 4.5 | 5.1 | 5.1 | 6.5 | 6.8 | 7.4 | 5.7 | 9.6 | 6.5 | 5.4 | 17.0 |
| 8 | 100 | 3.9 | 5.2 | 6.5 | 5.3 | 4.2 | 4.7 | 4.7 | 6.0 | 6.2 | 6.7 | 5.2 | 8.8 | 6.0 | 4.9 | 15.6 |
| 6 | 110 | 3.6 | 4.9 | 6.1 | 5.0 | 3.9 | 4.4 | 4.4 | 5.6 | 5.8 | 6.3 | 4.9 | 8.3 | 5.6 | 4.6 | 14.6 |
| 7 | 110 | 3.6 | 4.8 | 6.0 | 5.0 | 3.9 | 4.3 | 4.3 | 5.5 | 5.8 | 6.3 | 4.8 | 8.2 | 5.5 | 4.6 | 14.4 |
| 8 | 110 | 3.3 | 4.4 | 5.5 | 4.5 | 3.5 | 4.0 | 4.0 | 5.1 | 5.3 | 5.7 | 4.4 | 7.5 | 5.1 | 4.2 | 13.2 |
| 6 | 125 | 3.0 | 4.0 | 5.0 | 4.1 | 3.2 | 3.6 | 3.6 | 4.6 | 4.8 | 5.2 | 4.0 | 6.7 | 4.6 | 3.8 | 11.9 |
| 7 | 125 | 2.9 | 3.9 | 4.9 | 4.1 | 3.1 | 3.5 | 3.5 | 4.5 | 4.7 | 5.1 | 3.9 | 6.7 | 4.5 | 3.7 | 11.8 |
| 8 | 125 | 2.7 | 3.6 | 4.5 | 3.7 | 2.9 | 3.2 | 3.2 | 4.1 | 4.3 | 4.7 | 3.6 | 6.1 | 4.1 | 3.4 | 10.8 |

Tight Rust or Millscale

New Steel

Medium Profile Range

SSPC-SP 10

Tables 2322

CP

| Operating Conditions | | Consumption Rate lbs/ft² of Blasting | | | | | | | | | | | | | | |
|----------------------|----------------|--------------------------------------|--------|------|-----------------------------|------|--------|------|--------------------------------|------------|--------|--------|--------------|---------|-------|------|
| | | Typical Mineral Abrasive | | | Refinery & By-Product Grits | | | | Natural or Mined Grits & Sands | | | | Manufactured | | | |
| Nozzle Size | Pressure (psi) | -25% | Median | +25% | Copper | Coal | Nickel | Iron | Olivine | Staurolite | Garnet | Silica | Zircon | Alumina | Glass | |
| 6 | 90 | 5.0 | 6.7 | 8.3 | 6.9 | 5.3 | 6.0 | 6.0 | 7.7 | 8.0 | 8.7 | 6.7 | 11.3 | 7.7 | 6.3 | 20.0 |
| 7 | 90 | 4.9 | 6.6 | 8.2 | 6.8 | 5.3 | 5.9 | 5.9 | 7.6 | 7.9 | 8.6 | 6.6 | 11.2 | 7.6 | 6.3 | 19.7 |
| 8 | 90 | 4.5 | 6.0 | 7.6 | 6.2 | 4.8 | 5.4 | 5.4 | 7.0 | 7.3 | 7.9 | 6.0 | 10.3 | 7.0 | 5.7 | 18.1 |
| 6 | 100 | 4.3 | 5.8 | 7.2 | 5.9 | 4.6 | 5.2 | 5.2 | 6.6 | 6.9 | 7.5 | 5.8 | 9.8 | 6.6 | 5.5 | 17.3 |
| 7 | 100 | 4.2 | 5.7 | 7.1 | 5.8 | 4.5 | 5.1 | 5.1 | 6.5 | 6.8 | 7.4 | 5.7 | 9.6 | 6.5 | 5.4 | 17.0 |
| 8 | 100 | 3.9 | 5.2 | 6.5 | 5.3 | 4.2 | 4.7 | 4.7 | 6.0 | 6.2 | 6.7 | 5.2 | 8.8 | 6.0 | 4.9 | 15.6 |
| 6 | 110 | 3.6 | 4.9 | 6.1 | 5.0 | 3.9 | 4.4 | 4.4 | 5.6 | 5.8 | 6.3 | 4.9 | 8.3 | 5.6 | 4.6 | 14.6 |
| 7 | 110 | 3.6 | 4.8 | 6.0 | 5.0 | 3.9 | 4.3 | 4.3 | 5.5 | 5.8 | 6.3 | 4.8 | 8.2 | 5.5 | 4.6 | 14.4 |
| 8 | 110 | 3.3 | 4.4 | 5.5 | 4.5 | 3.5 | 4.0 | 4.0 | 5.1 | 5.3 | 5.7 | 4.4 | 7.5 | 5.1 | 4.2 | 13.2 |
| 6 | 125 | 3.0 | 4.0 | 5.0 | 4.1 | 3.2 | 3.6 | 3.6 | 4.6 | 4.8 | 5.2 | 4.0 | 6.7 | 4.6 | 3.8 | 11.9 |
| 7 | 125 | 2.9 | 3.9 | 4.9 | 4.1 | 3.1 | 3.5 | 3.5 | 4.5 | 4.7 | 5.1 | 3.9 | 6.7 | 4.5 | 3.7 | 11.8 |
| 8 | 125 | 2.7 | 3.6 | 4.5 | 3.7 | 2.9 | 3.2 | 3.2 | 4.1 | 4.3 | 4.7 | 3.6 | 6.1 | 4.1 | 3.4 | 10.8 |

Tight Rust or Millscale

New Steel

Medium Profile Range

SSPC-SP 10

Tables 2322

CP

| Operating Conditions | | Consumption Rate lbs/ft² of Blasting | | | | | | | | | | | | | | |
|----------------------|----------------|--------------------------------------|--------|------|-----------------------------|------|--------|------|--------------------------------|------------|--------|--------|--------------|---------|-------|------|
| | | Typical Mineral Abrasive | | | Refinery & By-Product Grits | | | | Natural or Mined Grits & Sands | | | | Manufactured | | | |
| Nozzle Size | Pressure (psi) | -25% | Median | +25% | Copper | Coal | Nickel | Iron | Olivine | Staurolite | Garnet | Silica | Zircon | Alumina | Glass | Iron |
| 6 | 90 | 10.0 | 13.3 | 16.6 | 13.7 | 10.7 | 12.0 | 12.0 | 15.3 | 16.0 | 17.3 | 13.3 | 22.6 | 15.3 | 12.7 | 39.9 |
| 7 | 90 | 9.9 | 13.2 | 16.5 | 13.6 | 10.5 | 11.8 | 11.8 | 15.1 | 15.8 | 17.1 | 13.2 | 22.4 | 15.1 | 12.5 | 39.5 |
| 8 | 90 | 9.0 | 12.1 | 15.1 | 12.4 | 9.6 | 10.8 | 10.8 | 13.9 | 14.5 | 15.7 | 12.1 | 20.5 | 13.9 | 11.4 | 36.2 |
| 6 | 100 | 8.6 | 11.5 | 14.4 | 11.9 | 9.2 | 10.4 | 10.4 | 13.2 | 13.8 | 15.0 | 11.5 | 19.6 | 13.2 | 10.9 | 34.6 |
| 7 | 100 | 8.5 | 11.3 | 14.1 | 11.7 | 9.1 | 10.2 | 10.2 | 13.0 | 13.6 | 14.7 | 11.3 | 19.2 | 13.0 | 10.7 | 33.9 |
| 8 | 100 | 7.8 | 10.4 | 13.0 | 10.7 | 8.3 | 9.3 | 9.3 | 11.9 | 12.5 | 13.5 | 10.4 | 17.6 | 11.9 | 9.9 | 31.1 |
| 6 | 110 | 7.3 | 9.7 | 12.2 | 10.0 | 7.8 | 8.8 | 8.8 | 11.2 | 11.7 | 12.6 | 9.7 | 16.5 | 11.2 | 9.2 | 29.2 |
| 7 | 110 | 7.2 | 9.7 | 12.1 | 9.9 | 7.7 | 8.7 | 8.7 | 11.1 | 11.6 | 12.5 | 9.7 | 16.4 | 11.1 | 9.2 | 29.0 |
| 8 | 110 | 6.6 | 8.8 | 11.0 | 9.1 | 7.1 | 7.9 | 7.9 | 10.2 | 10.6 | 11.5 | 8.8 | 15.0 | 10.2 | 8.4 | 26.5 |
| 6 | 125 | 5.9 | 7.9 | 9.9 | 8.2 | 6.3 | 7.1 | 7.1 | 9.1 | 9.5 | 10.3 | 7.9 | 13.5 | 9.1 | 7.5 | 23.7 |
| 7 | 125 | 5.9 | 7.8 | 9.8 | 8.1 | 6.3 | 7.1 | 7.1 | 9.0 | 9.4 | 10.2 | 7.8 | 13.3 | 9.0 | 7.5 | 23.5 |
| 8 | 125 | 5.4 | 7.2 | 9.0 | 7.4 | 5.8 | 6.5 | 6.5 | 8.3 | 8.6 | 9.3 | 7.2 | 12.2 | 8.3 | 6.8 | 21.6 |

Tight Rust or Millscale

New Steel

High Profile Range

SSPC-SP 10

Tables 2323 CP

| Operating Conditions | | Consumption Rate lbs/ft² of Blasting | | | | | | | | | | | | | | |
|----------------------|----------------|--------------------------------------|--------|------|-----------------------------|------|--------|------|--------------------------------|------------|--------|--------|--------------|---------|-------|------|
| | | Typical Mineral Abrasive | | | Refinery & By-Product Grits | | | | Natural or Mined Grits & Sands | | | | Manufactured | | | |
| Nozzle Size | Pressure (psi) | -25% | Median | +25% | Copper | Coal | Nickel | Iron | Olivine | Staurolite | Garnet | Silica | Zircon | Alumina | Glass | |
| 6 | 90 | 10.0 | 13.3 | 16.6 | 13.7 | 10.7 | 12.0 | 12.0 | 15.3 | 16.0 | 17.3 | 13.3 | 22.6 | 15.3 | 12.7 | 39.9 |
| 7 | 90 | 9.9 | 13.2 | 16.5 | 13.6 | 10.5 | 11.8 | 11.8 | 15.1 | 15.8 | 17.1 | 13.2 | 22.4 | 15.1 | 12.5 | 39.5 |
| 8 | 90 | 9.0 | 12.1 | 15.1 | 12.4 | 9.6 | 10.8 | 10.8 | 13.9 | 14.5 | 15.7 | 12.1 | 20.5 | 13.9 | 11.4 | 36.2 |
| 6 | 100 | 8.6 | 11.5 | 14.4 | 11.9 | 9.2 | 10.4 | 10.4 | 13.2 | 13.8 | 15.0 | 11.5 | 19.6 | 13.2 | 10.9 | 34.6 |
| 7 | 100 | 8.5 | 11.3 | 14.1 | 11.7 | 9.1 | 10.2 | 10.2 | 13.0 | 13.6 | 14.7 | 11.3 | 19.2 | 13.0 | 10.7 | 33.9 |
| 8 | 100 | 7.8 | 10.4 | 13.0 | 10.7 | 8.3 | 9.3 | 9.3 | 11.9 | 12.5 | 13.5 | 10.4 | 17.6 | 11.9 | 9.9 | 31.1 |
| 6 | 110 | 7.3 | 9.7 | 12.2 | 10.0 | 7.8 | 8.8 | 8.8 | 11.2 | 11.7 | 12.6 | 9.7 | 16.5 | 11.2 | 9.2 | 29.2 |
| 7 | 110 | 7.2 | 9.7 | 12.1 | 9.9 | 7.7 | 8.7 | 8.7 | 11.1 | 11.6 | 12.5 | 9.7 | 16.4 | 11.1 | 9.2 | 29.0 |
| 8 | 110 | 6.6 | 8.8 | 11.0 | 9.1 | 7.1 | 7.9 | 7.9 | 10.2 | 10.6 | 11.5 | 8.8 | 15.0 | 10.2 | 8.4 | 26.5 |
| 6 | 125 | 5.9 | 7.9 | 9.9 | 8.2 | 6.3 | 7.1 | 7.1 | 9.1 | 9.5 | 10.3 | 7.9 | 13.5 | 9.1 | 7.5 | 23.7 |
| 7 | 125 | 5.9 | 7.8 | 9.8 | 8.1 | 6.3 | 7.1 | 7.1 | 9.0 | 9.4 | 10.2 | 7.8 | 13.3 | 9.0 | 7.5 | 23.5 |
| 8 | 125 | 5.4 | 7.2 | 9.0 | 7.4 | 5.8 | 6.5 | 6.5 | 8.3 | 8.6 | 9.3 | 7.2 | 12.2 | 8.3 | 6.8 | 21.6 |

Tight Rust or Millscale

New Steel

High Profile Range

SSPC-SP 10

Tables 2323

CP

| Operating Conditions | | Consumption Rate lbs/ft² of Blasting | | | | | | | | | | | | | | |
|----------------------|----------------|--------------------------------------|--------|------|-----------------------------|------|--------|------|--------------------------------|------------|--------|--------|--------------|---------|-------|-----|
| | | Typical Mineral Abrasive | | | Refinery & By-Product Grits | | | | Natural or Mined Grits & Sands | | | | Manufactured | | | |
| Nozzle Size | Pressure (psi) | -25% | Median | +25% | Copper | Coal | Nickel | Iron | Olivine | Staurolite | Garnet | Silica | Zircon | Alumina | Glass | |
| 6 | 90 | 1.7 | 2.2 | 2.8 | 2.3 | 1.8 | 2.0 | 2.0 | 2.6 | 2.7 | 2.9 | 2.2 | 3.8 | 2.6 | 2.1 | 6.7 |
| 7 | 90 | 1.5 | 2.0 | 2.6 | 2.1 | 1.6 | 1.8 | 1.8 | 2.3 | 2.5 | 2.7 | 2.0 | 3.5 | 2.3 | 1.9 | 6.1 |
| 8 | 90 | 1.5 | 2.0 | 2.5 | 2.0 | 1.6 | 1.8 | 1.8 | 2.3 | 2.4 | 2.6 | 2.0 | 3.3 | 2.3 | 1.9 | 5.9 |
| 6 | 100 | 1.4 | 1.9 | 2.4 | 2.0 | 1.5 | 1.7 | 1.7 | 2.2 | 2.3 | 2.5 | 1.9 | 3.3 | 2.2 | 1.8 | 5.8 |
| 7 | 100 | 1.3 | 1.8 | 2.2 | 1.8 | 1.4 | 1.6 | 1.6 | 2.0 | 2.1 | 2.3 | 1.8 | 3.0 | 2.0 | 1.7 | 5.3 |
| 8 | 100 | 1.3 | 1.7 | 2.1 | 1.7 | 1.3 | 1.5 | 1.5 | 1.9 | 2.0 | 2.2 | 1.7 | 2.9 | 1.9 | 1.6 | 5.1 |
| 6 | 110 | 1.2 | 1.6 | 2.0 | 1.7 | 1.3 | 1.5 | 1.5 | 1.9 | 1.9 | 2.1 | 1.6 | 2.8 | 1.9 | 1.5 | 4.9 |
| 7 | 110 | 1.1 | 1.5 | 1.9 | 1.5 | 1.2 | 1.4 | 1.4 | 1.7 | 1.8 | 2.0 | 1.5 | 2.6 | 1.7 | 1.4 | 4.5 |
| 8 | 110 | 1.1 | 1.4 | 1.8 | 1.5 | 1.1 | 1.3 | 1.3 | 1.6 | 1.7 | 1.9 | 1.4 | 2.4 | 1.6 | 1.4 | 4.3 |
| 6 | 125 | 1.0 | 1.3 | 1.7 | 1.4 | 1.1 | 1.2 | 1.2 | 1.5 | 1.6 | 1.7 | 1.3 | 2.3 | 1.5 | 1.3 | 4.0 |
| 7 | 125 | 0.9 | 1.2 | 1.5 | 1.3 | 1.0 | 1.1 | 1.1 | 1.4 | 1.5 | 1.6 | 1.2 | 2.1 | 1.4 | 1.2 | 3.7 |
| 8 | 125 | 0.9 | 1.2 | 1.5 | 1.2 | 0.9 | 1.1 | 1.1 | 1.3 | 1.4 | 1.5 | 1.2 | 2.0 | 1.3 | 1.1 | 3.5 |

Tight Rust or Millscale

New Steel

Low Profile Range

SSPC-SP 6

Tables 2331 CP

| Operating Conditions | | Consumption Rate lbs/ft² of Blasting | | | | | | | | | | | | | | |
|----------------------|----------------|--------------------------------------|--------|------|-----------------------------|------|--------|------|--------------------------------|------------|--------|--------|--------------|---------|-------|-----|
| | | Typical Mineral Abrasive | | | Refinery & By-Product Grits | | | | Natural or Mined Grits & Sands | | | | Manufactured | | | |
| Nozzle Size | Pressure (psi) | -25% | Median | +25% | Copper | Coal | Nickel | Iron | Olivine | Staurolite | Garnet | Silica | Zircon | Alumina | Glass | |
| 6 | 90 | 1.7 | 2.2 | 2.8 | 2.3 | 1.8 | 2.0 | 2.0 | 2.6 | 2.7 | 2.9 | 2.2 | 3.8 | 2.6 | 2.1 | 6.7 |
| 7 | 90 | 1.5 | 2.0 | 2.6 | 2.1 | 1.6 | 1.8 | 1.8 | 2.3 | 2.5 | 2.7 | 2.0 | 3.5 | 2.3 | 1.9 | 6.1 |
| 8 | 90 | 1.5 | 2.0 | 2.5 | 2.0 | 1.6 | 1.8 | 1.8 | 2.3 | 2.4 | 2.6 | 2.0 | 3.3 | 2.3 | 1.9 | 5.9 |
| 6 | 100 | 1.4 | 1.9 | 2.4 | 2.0 | 1.5 | 1.7 | 1.7 | 2.2 | 2.3 | 2.5 | 1.9 | 3.3 | 2.2 | 1.8 | 5.8 |
| 7 | 100 | 1.3 | 1.8 | 2.2 | 1.8 | 1.4 | 1.6 | 1.6 | 2.0 | 2.1 | 2.3 | 1.8 | 3.0 | 2.0 | 1.7 | 5.3 |
| 8 | 100 | 1.3 | 1.7 | 2.1 | 1.7 | 1.3 | 1.5 | 1.5 | 1.9 | 2.0 | 2.2 | 1.7 | 2.9 | 1.9 | 1.6 | 5.1 |
| 6 | 110 | 1.2 | 1.6 | 2.0 | 1.7 | 1.3 | 1.5 | 1.5 | 1.9 | 1.9 | 2.1 | 1.6 | 2.8 | 1.9 | 1.5 | 4.9 |
| 7 | 110 | 1.1 | 1.5 | 1.9 | 1.5 | 1.2 | 1.4 | 1.4 | 1.7 | 1.8 | 2.0 | 1.5 | 2.6 | 1.7 | 1.4 | 4.5 |
| 8 | 110 | 1.1 | 1.4 | 1.8 | 1.5 | 1.1 | 1.3 | 1.3 | 1.6 | 1.7 | 1.9 | 1.4 | 2.4 | 1.6 | 1.4 | 4.3 |
| 6 | 125 | 1.0 | 1.3 | 1.7 | 1.4 | 1.1 | 1.2 | 1.2 | 1.5 | 1.6 | 1.7 | 1.3 | 2.3 | 1.5 | 1.3 | 4.0 |
| 7 | 125 | 0.9 | 1.2 | 1.5 | 1.3 | 1.0 | 1.1 | 1.1 | 1.4 | 1.5 | 1.6 | 1.2 | 2.1 | 1.4 | 1.2 | 3.7 |
| 8 | 125 | 0.9 | 1.2 | 1.5 | 1.2 | 0.9 | 1.1 | 1.1 | 1.3 | 1.4 | 1.5 | 1.2 | 2.0 | 1.3 | 1.1 | 3.5 |

Tight Rust or Millscale

New Steel

Low Profile Range

SSPC-SP 6

Tables 2331 CP

| Operating Conditions | | Consumption Rate lbs/ft² of Blasting | | | | | | | | | | | | | | |
|----------------------|----------------|--------------------------------------|--------|------|-----------------------------|------|--------|------|--------------------------------|------------|--------|--------|--------------|---------|-------|------------|
| | | Typical Mineral Abrasive | | | Refinery & By-Product Grits | | | | Natural or Mined Grits & Sands | | | | Manufactured | | | Steel Iron |
| Nozzle Size | Pressure (psi) | -25% | Median | +25% | Copper | Coal | Nickel | Iron | Olivine | Staurolite | Garnet | Silica | Zircon | Alumina | Glass | |
| 6 | 90 | 2.5 | 3.3 | 4.2 | 3.4 | 2.7 | 3.0 | 3.0 | 3.8 | 4.0 | 4.3 | 3.3 | 5.7 | 3.8 | 3.2 | 10.0 |
| 7 | 90 | 2.3 | 3.1 | 3.8 | 3.2 | 2.4 | 2.8 | 2.8 | 3.5 | 3.7 | 4.0 | 3.1 | 5.2 | 3.5 | 2.9 | 9.2 |
| 8 | 90 | 2.2 | 2.9 | 3.7 | 3.0 | 2.4 | 2.7 | 2.7 | 3.4 | 3.5 | 3.8 | 2.9 | 5.0 | 3.4 | 2.8 | 8.8 |
| 6 | 100 | 2.2 | 2.9 | 3.6 | 3.0 | 2.3 | 2.6 | 2.6 | 3.3 | 3.5 | 3.7 | 2.9 | 4.9 | 3.3 | 2.7 | 8.6 |
| 7 | 100 | 2.0 | 2.6 | 3.3 | 2.7 | 2.1 | 2.4 | 2.4 | 3.0 | 3.2 | 3.4 | 2.6 | 4.5 | 3.0 | 2.5 | 7.9 |
| 8 | 100 | 1.9 | 2.5 | 3.2 | 2.6 | 2.0 | 2.3 | 2.3 | 2.9 | 3.0 | 3.3 | 2.5 | 4.3 | 2.9 | 2.4 | 7.6 |
| 6 | 110 | 1.8 | 2.4 | 3.0 | 2.5 | 1.9 | 2.2 | 2.2 | 2.8 | 2.9 | 3.2 | 2.4 | 4.1 | 2.8 | 2.3 | 7.3 |
| 7 | 110 | 1.7 | 2.3 | 2.8 | 2.3 | 1.8 | 2.0 | 2.0 | 2.6 | 2.7 | 2.9 | 2.3 | 3.8 | 2.6 | 2.1 | 6.8 |
| 8 | 110 | 1.6 | 2.1 | 2.7 | 2.2 | 1.7 | 1.9 | 1.9 | 2.5 | 2.6 | 2.8 | 2.1 | 3.7 | 2.5 | 2.0 | 6.4 |
| 6 | 125 | 1.5 | 2.0 | 2.5 | 2.0 | 1.6 | 1.8 | 1.8 | 2.3 | 2.4 | 2.6 | 2.0 | 3.4 | 2.3 | 1.9 | 6.0 |
| 7 | 125 | 1.4 | 1.8 | 2.3 | 1.9 | 1.5 | 1.7 | 1.7 | 2.1 | 2.2 | 2.4 | 1.8 | 3.1 | 2.1 | 1.7 | 5.5 |
| 8 | 125 | 1.3 | 1.8 | 2.2 | 1.8 | 1.4 | 1.6 | 1.6 | 2.0 | 2.1 | 2.3 | 1.8 | 3.0 | 2.0 | 1.7 | 5.3 |

Tight Rust or Millscale

New Steel

Medium Profile Range

SSPC-SP 6

Tables 2332 CP

| Operating Conditions | | Consumption Rate lbs/ft² of Blasting | | | | | | | | | | | | | | |
|----------------------|----------------|--------------------------------------|--------|------|-----------------------------|------|--------|------|--------------------------------|------------|--------|--------|--------------|---------|-------|------------|
| | | Typical Mineral Abrasive | | | Refinery & By-Product Grits | | | | Natural or Mined Grits & Sands | | | | Manufactured | | | Steel Iron |
| Nozzle Size | Pressure (psi) | -25% | Median | +25% | Copper | Coal | Nickel | Iron | Olivine | Staurolite | Garnet | Silica | Zircon | Alumina | Glass | |
| 6 | 90 | 2.5 | 3.3 | 4.2 | 3.4 | 2.7 | 3.0 | 3.0 | 3.8 | 4.0 | 4.3 | 3.3 | 5.7 | 3.8 | 3.2 | 10.0 |
| 7 | 90 | 2.3 | 3.1 | 3.8 | 3.2 | 2.4 | 2.8 | 2.8 | 3.5 | 3.7 | 4.0 | 3.1 | 5.2 | 3.5 | 2.9 | 9.2 |
| 8 | 90 | 2.2 | 2.9 | 3.7 | 3.0 | 2.4 | 2.7 | 2.7 | 3.4 | 3.5 | 3.8 | 2.9 | 5.0 | 3.4 | 2.8 | 8.8 |
| 6 | 100 | 2.2 | 2.9 | 3.6 | 3.0 | 2.3 | 2.6 | 2.6 | 3.3 | 3.5 | 3.7 | 2.9 | 4.9 | 3.3 | 2.7 | 8.6 |
| 7 | 100 | 2.0 | 2.6 | 3.3 | 2.7 | 2.1 | 2.4 | 2.4 | 3.0 | 3.2 | 3.4 | 2.6 | 4.5 | 3.0 | 2.5 | 7.9 |
| 8 | 100 | 1.9 | 2.5 | 3.2 | 2.6 | 2.0 | 2.3 | 2.3 | 2.9 | 3.0 | 3.3 | 2.5 | 4.3 | 2.9 | 2.4 | 7.6 |
| 6 | 110 | 1.8 | 2.4 | 3.0 | 2.5 | 1.9 | 2.2 | 2.2 | 2.8 | 2.9 | 3.2 | 2.4 | 4.1 | 2.8 | 2.3 | 7.3 |
| 7 | 110 | 1.7 | 2.3 | 2.8 | 2.3 | 1.8 | 2.0 | 2.0 | 2.6 | 2.7 | 2.9 | 2.3 | 3.8 | 2.6 | 2.1 | 6.8 |
| 8 | 110 | 1.6 | 2.1 | 2.7 | 2.2 | 1.7 | 1.9 | 1.9 | 2.5 | 2.6 | 2.8 | 2.1 | 3.7 | 2.5 | 2.0 | 6.4 |
| 6 | 125 | 1.5 | 2.0 | 2.5 | 2.0 | 1.6 | 1.8 | 1.8 | 2.3 | 2.4 | 2.6 | 2.0 | 3.4 | 2.3 | 1.9 | 6.0 |
| 7 | 125 | 1.4 | 1.8 | 2.3 | 1.9 | 1.5 | 1.7 | 1.7 | 2.1 | 2.2 | 2.4 | 1.8 | 3.1 | 2.1 | 1.7 | 5.5 |
| 8 | 125 | 1.3 | 1.8 | 2.2 | 1.8 | 1.4 | 1.6 | 1.6 | 2.0 | 2.1 | 2.3 | 1.8 | 3.0 | 2.0 | 1.7 | 5.3 |

Tight Rust or Millscale

New Steel

Medium Profile Range

SSPC-SP 6

Tables 2332 CP

| Operating Conditions | | Consumption Rate lbs/ft² of Blasting | | | | | | | | | | | | | | |
|----------------------|----------------|--------------------------------------|--------|------|-----------------------------|------|--------|------|--------------------------------|------------|--------|--------|--------------|---------|-------|------|
| | | Typical Mineral Abrasive | | | Refinery & By-Product Grits | | | | Natural or Mined Grits & Sands | | | | Manufactured | | | |
| Nozzle Size | Pressure (psi) | -25% | Median | +25% | Copper | Coal | Nickel | Iron | Olivine | Staurolite | Garnet | Silica | Zircon | Alumina | Glass | |
| 6 | 90 | 5.0 | 6.7 | 8.3 | 6.9 | 5.3 | 6.0 | 6.0 | 7.7 | 8.0 | 8.7 | 6.7 | 11.3 | 7.7 | 6.3 | 20.0 |
| 7 | 90 | 4.6 | 6.1 | 7.7 | 6.3 | 4.9 | 5.5 | 5.5 | 7.1 | 7.4 | 8.0 | 6.1 | 10.4 | 7.1 | 5.8 | 18.4 |
| 8 | 90 | 4.4 | 5.9 | 7.4 | 6.1 | 4.7 | 5.3 | 5.3 | 6.8 | 7.1 | 7.7 | 5.9 | 10.0 | 6.8 | 5.6 | 17.7 |
| 6 | 100 | 4.3 | 5.8 | 7.2 | 5.9 | 4.6 | 5.2 | 5.2 | 6.6 | 6.9 | 7.5 | 5.8 | 9.8 | 6.6 | 5.5 | 17.3 |
| 7 | 100 | 4.0 | 5.3 | 6.6 | 5.4 | 4.2 | 4.8 | 4.8 | 6.1 | 6.3 | 6.9 | 5.3 | 9.0 | 6.1 | 5.0 | 15.8 |
| 8 | 100 | 3.8 | 5.1 | 6.3 | 5.2 | 4.0 | 4.6 | 4.6 | 5.8 | 6.1 | 6.6 | 5.1 | 8.6 | 5.8 | 4.8 | 15.2 |
| 6 | 110 | 3.6 | 4.9 | 6.1 | 5.0 | 3.9 | 4.4 | 4.4 | 5.6 | 5.8 | 6.3 | 4.9 | 8.3 | 5.6 | 4.6 | 14.6 |
| 7 | 110 | 3.4 | 4.5 | 5.6 | 4.6 | 3.6 | 4.1 | 4.1 | 5.2 | 5.4 | 5.9 | 4.5 | 7.7 | 5.2 | 4.3 | 13.5 |
| 8 | 110 | 3.2 | 4.3 | 5.4 | 4.4 | 3.4 | 3.9 | 3.9 | 4.9 | 5.2 | 5.6 | 4.3 | 7.3 | 4.9 | 4.1 | 12.9 |
| 6 | 125 | 3.0 | 4.0 | 5.0 | 4.1 | 3.2 | 3.6 | 3.6 | 4.6 | 4.8 | 5.2 | 4.0 | 6.8 | 4.6 | 3.8 | 11.9 |
| 7 | 125 | 2.8 | 3.7 | 4.6 | 3.8 | 2.9 | 3.3 | 3.3 | 4.2 | 4.4 | 4.8 | 3.7 | 6.2 | 4.2 | 3.5 | 11.0 |
| 8 | 125 | 2.6 | 3.5 | 4.4 | 3.6 | 2.8 | 3.2 | 3.2 | 4.0 | 4.2 | 4.6 | 3.5 | 6.0 | 4.0 | 3.3 | 10.5 |

Tight Rust or Millscale

New Steel

High Profile Range

SSPC-SP 6

Tables 2333 CP

| Operating Conditions | | Consumption Rate lbs/ft² of Blasting | | | | | | | | | | | | | | |
|----------------------|----------------|--------------------------------------|--------|------|-----------------------------|------|--------|------|--------------------------------|------------|--------|--------|--------------|---------|-------|------|
| | | Typical Mineral Abrasive | | | Refinery & By-Product Grits | | | | Natural or Mined Grits & Sands | | | | Manufactured | | | |
| Nozzle Size | Pressure (psi) | -25% | Median | +25% | Copper | Coal | Nickel | Iron | Olivine | Staurolite | Garnet | Silica | Zircon | Alumina | Glass | Iron |
| 6 | 90 | 5.0 | 6.7 | 8.3 | 6.9 | 5.3 | 6.0 | 6.0 | 7.7 | 8.0 | 8.7 | 6.7 | 11.3 | 7.7 | 6.3 | 20.0 |
| 7 | 90 | 4.6 | 6.1 | 7.7 | 6.3 | 4.9 | 5.5 | 5.5 | 7.1 | 7.4 | 8.0 | 6.1 | 10.4 | 7.1 | 5.8 | 18.4 |
| 8 | 90 | 4.4 | 5.9 | 7.4 | 6.1 | 4.7 | 5.3 | 5.3 | 6.8 | 7.1 | 7.7 | 5.9 | 10.0 | 6.8 | 5.6 | 17.7 |
| 6 | 100 | 4.3 | 5.8 | 7.2 | 5.9 | 4.6 | 5.2 | 5.2 | 6.6 | 6.9 | 7.5 | 5.8 | 9.8 | 6.6 | 5.5 | 17.3 |
| 7 | 100 | 4.0 | 5.3 | 6.6 | 5.4 | 4.2 | 4.8 | 4.8 | 6.1 | 6.3 | 6.9 | 5.3 | 9.0 | 6.1 | 5.0 | 15.8 |
| 8 | 100 | 3.8 | 5.1 | 6.3 | 5.2 | 4.0 | 4.6 | 4.6 | 5.8 | 6.1 | 6.6 | 5.1 | 8.6 | 5.8 | 4.8 | 15.2 |
| 6 | 110 | 3.6 | 4.9 | 6.1 | 5.0 | 3.9 | 4.4 | 4.4 | 5.6 | 5.8 | 6.3 | 4.9 | 8.3 | 5.6 | 4.6 | 14.6 |
| 7 | 110 | 3.4 | 4.5 | 5.6 | 4.6 | 3.6 | 4.1 | 4.1 | 5.2 | 5.4 | 5.9 | 4.5 | 7.7 | 5.2 | 4.3 | 13.5 |
| 8 | 110 | 3.2 | 4.3 | 5.4 | 4.4 | 3.4 | 3.9 | 3.9 | 4.9 | 5.2 | 5.6 | 4.3 | 7.3 | 4.9 | 4.1 | 12.9 |
| 6 | 125 | 3.0 | 4.0 | 5.0 | 4.1 | 3.2 | 3.6 | 3.6 | 4.6 | 4.8 | 5.2 | 4.0 | 6.8 | 4.6 | 3.8 | 11.9 |
| 7 | 125 | 2.8 | 3.7 | 4.6 | 3.8 | 2.9 | 3.3 | 3.3 | 4.2 | 4.4 | 4.8 | 3.7 | 6.2 | 4.2 | 3.5 | 11.0 |
| 8 | 125 | 2.6 | 3.5 | 4.4 | 3.6 | 2.8 | 3.2 | 3.2 | 4.0 | 4.2 | 4.6 | 3.5 | 6.0 | 4.0 | 3.3 | 10.5 |

Tight Rust or Millscale

New Steel

High Profile Range

SSPC-SP 6

Tables 2333 CP

| Operating Conditions | | Consumption Rate lbs/ft² of Blasting | | | | | | | | | | | | | | |
|----------------------|----------------|--------------------------------------|--------|------|-----------------------------|------|--------|------|--------------------------------|------------|--------|--------|--------------|---------|-------|------|
| | | Typical Mineral Abrasive | | | Refinery & By-Product Grits | | | | Natural or Mined Grits & Sands | | | | Manufactured | | | |
| Nozzle Size | Pressure (psi) | -25% | Median | +25% | Copper | Coal | Nickel | Iron | Olivine | Staurolite | Garnet | Silica | Zircon | Alumina | Glass | Iron |
| 6 | 90 | 1.0 | 1.3 | 1.7 | 1.4 | 1.1 | 1.2 | 1.2 | 1.5 | 1.6 | 1.7 | 1.3 | 2.3 | 1.5 | 1.3 | 4.0 |
| 7 | 90 | 0.9 | 1.2 | 1.5 | 1.3 | 1.0 | 1.1 | 1.1 | 1.4 | 1.5 | 1.6 | 1.2 | 2.1 | 1.4 | 1.2 | 3.7 |
| 8 | 90 | 0.9 | 1.2 | 1.5 | 1.2 | 0.9 | 1.1 | 1.1 | 1.4 | 1.4 | 1.5 | 1.2 | 2.0 | 1.4 | 1.1 | 3.5 |
| 6 | 100 | 0.9 | 1.2 | 1.4 | 1.2 | 0.9 | 1.0 | 1.0 | 1.3 | 1.4 | 1.5 | 1.2 | 2.0 | 1.3 | 1.1 | 3.5 |
| 7 | 100 | 0.8 | 1.1 | 1.3 | 1.1 | 0.8 | 1.0 | 1.0 | 1.2 | 1.3 | 1.4 | 1.1 | 1.8 | 1.2 | 1.0 | 3.2 |
| 8 | 100 | 0.8 | 1.0 | 1.3 | 1.0 | 0.8 | 0.9 | 0.9 | 1.2 | 1.2 | 1.3 | 1.0 | 1.7 | 1.2 | 1.0 | 3.0 |
| 6 | 110 | 0.7 | 1.0 | 1.2 | 1.0 | 0.8 | 0.9 | 0.9 | 1.1 | 1.2 | 1.3 | 1.0 | 1.7 | 1.1 | 0.9 | 2.9 |
| 7 | 110 | 0.7 | 0.9 | 1.1 | 0.9 | 0.7 | 0.8 | 0.8 | 1.0 | 1.1 | 1.2 | 0.9 | 1.5 | 1.0 | 0.9 | 2.7 |
| 8 | 110 | 0.6 | 0.9 | 1.1 | 0.9 | 0.7 | 0.8 | 0.8 | 1.0 | 1.0 | 1.1 | 0.9 | 1.5 | 1.0 | 0.8 | 2.6 |
| 6 | 125 | 0.6 | 0.8 | 1.0 | 0.8 | 0.6 | 0.7 | 0.7 | 0.9 | 1.0 | 1.0 | 0.8 | 1.4 | 0.9 | 0.8 | 2.4 |
| 7 | 125 | 0.6 | 0.7 | 0.9 | 0.8 | 0.6 | 0.7 | 0.7 | 0.8 | 0.9 | 1.0 | 0.7 | 1.2 | 0.8 | 0.7 | 2.2 |
| 8 | 125 | 0.5 | 0.7 | 0.9 | 0.7 | 0.6 | 0.6 | 0.6 | 0.8 | 0.8 | 0.9 | 0.7 | 1.2 | 0.8 | 0.7 | 2.1 |

Tight Rust or Millscale

New Steel

Low Profile Range

SSPC-SP 7

Tables 2341

CP

| Operating Conditions | | Consumption Rate lbs/ft² of Blasting | | | | | | | | | | | | | | |
|----------------------|----------------|--------------------------------------|--------|------|-----------------------------|------|--------|------|--------------------------------|------------|--------|--------|--------------|---------|-------|------|
| | | Typical Mineral Abrasive | | | Refinery & By-Product Grits | | | | Natural or Mined Grits & Sands | | | | Manufactured | | | |
| Nozzle Size | Pressure (psi) | -25% | Median | +25% | Copper | Coal | Nickel | Iron | Olivine | Staurolite | Garnet | Silica | Zircon | Alumina | Glass | Iron |
| 6 | 90 | 1.0 | 1.3 | 1.7 | 1.4 | 1.1 | 1.2 | 1.2 | 1.5 | 1.6 | 1.7 | 1.3 | 2.3 | 1.5 | 1.3 | 4.0 |
| 7 | 90 | 0.9 | 1.2 | 1.5 | 1.3 | 1.0 | 1.1 | 1.1 | 1.4 | 1.5 | 1.6 | 1.2 | 2.1 | 1.4 | 1.2 | 3.7 |
| 8 | 90 | 0.9 | 1.2 | 1.5 | 1.2 | 0.9 | 1.1 | 1.1 | 1.4 | 1.4 | 1.5 | 1.2 | 2.0 | 1.4 | 1.1 | 3.5 |
| 6 | 100 | 0.9 | 1.2 | 1.4 | 1.2 | 0.9 | 1.0 | 1.0 | 1.3 | 1.4 | 1.5 | 1.2 | 2.0 | 1.3 | 1.1 | 3.5 |
| 7 | 100 | 0.8 | 1.1 | 1.3 | 1.1 | 0.8 | 1.0 | 1.0 | 1.2 | 1.3 | 1.4 | 1.1 | 1.8 | 1.2 | 1.0 | 3.2 |
| 8 | 100 | 0.8 | 1.0 | 1.3 | 1.0 | 0.8 | 0.9 | 0.9 | 1.2 | 1.2 | 1.3 | 1.0 | 1.7 | 1.2 | 1.0 | 3.0 |
| 6 | 110 | 0.7 | 1.0 | 1.2 | 1.0 | 0.8 | 0.9 | 0.9 | 1.1 | 1.2 | 1.3 | 1.0 | 1.7 | 1.1 | 0.9 | 2.9 |
| 7 | 110 | 0.7 | 0.9 | 1.1 | 0.9 | 0.7 | 0.8 | 0.8 | 1.0 | 1.1 | 1.2 | 0.9 | 1.5 | 1.0 | 0.9 | 2.7 |
| 8 | 110 | 0.6 | 0.9 | 1.1 | 0.9 | 0.7 | 0.8 | 0.8 | 1.0 | 1.0 | 1.1 | 0.9 | 1.5 | 1.0 | 0.8 | 2.6 |
| 6 | 125 | 0.6 | 0.8 | 1.0 | 0.8 | 0.6 | 0.7 | 0.7 | 0.9 | 1.0 | 1.0 | 0.8 | 1.4 | 0.9 | 0.8 | 2.4 |
| 7 | 125 | 0.6 | 0.7 | 0.9 | 0.8 | 0.6 | 0.7 | 0.7 | 0.8 | 0.9 | 1.0 | 0.7 | 1.2 | 0.8 | 0.7 | 2.2 |
| 8 | 125 | 0.5 | 0.7 | 0.9 | 0.7 | 0.6 | 0.6 | 0.6 | 0.8 | 0.8 | 0.9 | 0.7 | 1.2 | 0.8 | 0.7 | 2.1 |

Tight Rust or Millscale

New Steel

Low Profile Range

SSPC-SP 7

Tables 2341

CP

| Operating Conditions | | Consumption Rate lbs/ft² of Blasting | | | | | | | | | | | | | | |
|----------------------|----------------|--------------------------------------|--------|------|-----------------------------|------|--------|------|--------------------------------|------------|--------|--------|--------------|---------|-------|------|
| | | Typical Mineral Abrasive | | | Refinery & By-Product Grits | | | | Natural or Mined Grits & Sands | | | | Manufactured | | | |
| Nozzle Size | Pressure (psi) | -25% | Median | +25% | Copper | Coal | Nickel | Iron | Olivine | Staurolite | Garnet | Silica | Zircon | Alumina | Glass | |
| 6 | 90 | 5.1 | 6.8 | 8.5 | 7.0 | 5.5 | 6.1 | 6.1 | 7.9 | 8.2 | 8.9 | 6.8 | 11.6 | 7.9 | 6.5 | 20.5 |
| 7 | 90 | 4.8 | 6.4 | 8.0 | 6.6 | 5.1 | 5.8 | 5.8 | 7.4 | 7.7 | 8.4 | 6.4 | 10.9 | 7.4 | 6.1 | 19.3 |
| 8 | 90 | 4.5 | 6.0 | 7.6 | 6.2 | 4.8 | 5.4 | 5.4 | 7.0 | 7.3 | 7.9 | 6.0 | 10.3 | 7.0 | 5.7 | 18.1 |
| 6 | 100 | 4.4 | 5.9 | 7.4 | 6.1 | 4.7 | 5.3 | 5.3 | 6.8 | 7.1 | 7.7 | 5.9 | 10.0 | 6.8 | 5.6 | 17.7 |
| 7 | 100 | 4.2 | 5.6 | 6.9 | 5.7 | 4.4 | 5.0 | 5.0 | 6.4 | 6.7 | 7.2 | 5.6 | 9.4 | 6.4 | 5.3 | 16.7 |
| 8 | 100 | 3.9 | 5.2 | 6.5 | 5.3 | 4.2 | 4.7 | 4.7 | 6.0 | 6.2 | 6.7 | 5.2 | 8.8 | 6.0 | 4.9 | 15.6 |
| 6 | 110 | 3.8 | 5.0 | 6.3 | 5.2 | 4.0 | 4.5 | 4.5 | 5.8 | 6.0 | 6.5 | 5.0 | 8.5 | 5.8 | 4.8 | 15.0 |
| 7 | 110 | 3.5 | 4.7 | 5.9 | 4.9 | 3.8 | 4.3 | 4.3 | 5.4 | 5.7 | 6.2 | 4.7 | 8.0 | 5.4 | 4.5 | 14.2 |
| 8 | 110 | 3.3 | 4.4 | 5.5 | 4.5 | 3.5 | 4.0 | 4.0 | 5.1 | 5.3 | 5.7 | 4.4 | 7.5 | 5.1 | 4.2 | 13.2 |
| 6 | 125 | 3.1 | 4.1 | 5.1 | 4.2 | 3.3 | 3.7 | 3.7 | 4.7 | 4.9 | 5.3 | 4.1 | 6.9 | 4.7 | 3.9 | 12.2 |
| 7 | 125 | 2.9 | 3.9 | 4.8 | 4.0 | 3.1 | 3.5 | 3.5 | 4.5 | 4.6 | 5.0 | 3.9 | 6.6 | 4.5 | 3.7 | 11.6 |
| 8 | 125 | 2.7 | 3.6 | 4.5 | 3.7 | 2.9 | 3.2 | 3.2 | 4.1 | 4.3 | 4.7 | 3.6 | 6.1 | 4.1 | 3.4 | 10.8 |

Thin Paint or Rusted Thin Paint

Hard Coating

Low Profile Range

SSPC-SP 5

Tables 3111 CP

| Operating Conditions | | Consumption Rate lbs/ft² of Blasting | | | | | | | | | | | | | | |
|----------------------|----------------|--------------------------------------|--------|------|-----------------------------|------|--------|------|--------------------------------|------------|--------|--------|--------------|---------|-------|------|
| | | Typical Mineral Abrasive | | | Refinery & By-Product Grits | | | | Natural or Mined Grits & Sands | | | | Manufactured | | | |
| Nozzle Size | Pressure (psi) | -25% | Median | +25% | Copper | Coal | Nickel | Iron | Olivine | Staurolite | Garnet | Silica | Zircon | Alumina | Glass | |
| 6 | 90 | 7.7 | 10.2 | 12.8 | 10.5 | 8.2 | 9.2 | 9.2 | 11.7 | 12.3 | 13.3 | 10.2 | 17.4 | 11.7 | 9.7 | 30.6 |
| 7 | 90 | 7.2 | 9.7 | 12.1 | 9.9 | 7.7 | 8.7 | 8.7 | 11.1 | 11.6 | 12.5 | 9.7 | 16.4 | 11.1 | 9.2 | 29.0 |
| 8 | 90 | 6.8 | 9.1 | 11.4 | 9.4 | 7.3 | 8.2 | 8.2 | 10.5 | 10.9 | 11.8 | 9.1 | 15.5 | 10.5 | 8.6 | 27.3 |
| 6 | 100 | 6.6 | 8.9 | 11.1 | 9.1 | 7.1 | 8.0 | 8.0 | 10.2 | 10.6 | 11.5 | 8.9 | 15.1 | 10.2 | 8.4 | 26.6 |
| 7 | 100 | 6.3 | 8.3 | 10.4 | 8.6 | 6.7 | 7.5 | 7.5 | 9.6 | 10.0 | 10.8 | 8.3 | 14.2 | 9.6 | 7.9 | 25.0 |
| 8 | 100 | 5.8 | 7.8 | 9.7 | 8.0 | 6.2 | 7.0 | 7.0 | 9.0 | 9.3 | 10.1 | 7.8 | 13.2 | 9.0 | 7.4 | 23.4 |
| 6 | 110 | 5.6 | 7.5 | 9.4 | 7.7 | 6.0 | 6.8 | 6.8 | 8.6 | 9.0 | 9.8 | 7.5 | 12.8 | 8.6 | 7.1 | 22.6 |
| 7 | 110 | 5.3 | 7.1 | 8.9 | 7.3 | 5.7 | 6.4 | 6.4 | 8.2 | 8.5 | 9.2 | 7.1 | 12.1 | 8.2 | 6.8 | 21.3 |
| 8 | 110 | 4.9 | 6.6 | 8.2 | 6.8 | 5.3 | 5.9 | 5.9 | 7.6 | 7.9 | 8.6 | 6.6 | 11.2 | 7.6 | 6.3 | 19.8 |
| 6 | 125 | 4.6 | 6.1 | 7.6 | 6.3 | 4.9 | 5.5 | 5.5 | 7.0 | 7.3 | 7.9 | 6.1 | 10.4 | 7.0 | 5.8 | 18.3 |
| 7 | 125 | 4.3 | 5.8 | 7.2 | 6.0 | 4.6 | 5.2 | 5.2 | 6.7 | 7.0 | 7.5 | 5.8 | 9.9 | 6.7 | 5.5 | 17.4 |
| 8 | 125 | 4.0 | 5.4 | 6.7 | 5.6 | 4.3 | 4.9 | 4.9 | 6.2 | 6.5 | 7.0 | 5.4 | 9.2 | 6.2 | 5.1 | 16.2 |

Thin Paint or Rusted Thin Paint

Hard Coating

Medium Profile Range

SSPC-SP 5

Tables 3112 CP

| Operating Conditions | | Consumption Rate lbs/ft² of Blasting | | | | | | | | | | | | | | |
|----------------------|----------------|--------------------------------------|--------|------|-----------------------------|------|--------|------|--------------------------------|------------|--------|--------|--------------|---------|-------|------|
| | | Typical Mineral Abrasive | | | Refinery & By-Product Grits | | | | Natural or Mined Grits & Sands | | | | Manufactured | | | |
| Nozzle Size | Pressure (psi) | -25% | Median | +25% | Copper | Coal | Nickel | Iron | Olivine | Staurolite | Garnet | Silica | Zircon | Alumina | Glass | |
| 6 | 90 | 15.5 | 20.6 | 25.8 | 21.2 | 16.5 | 18.6 | 18.6 | 23.7 | 24.8 | 26.8 | 20.6 | 35.1 | 23.7 | 19.6 | 61.9 |
| 7 | 90 | 14.5 | 19.3 | 24.1 | 19.9 | 15.4 | 17.4 | 17.4 | 22.2 | 23.2 | 25.1 | 19.3 | 32.8 | 22.2 | 18.3 | 57.9 |
| 8 | 90 | 13.6 | 18.2 | 22.7 | 18.7 | 14.6 | 16.4 | 16.4 | 20.9 | 21.8 | 23.7 | 18.2 | 30.9 | 20.9 | 17.3 | 54.6 |
| 6 | 100 | 13.3 | 17.7 | 22.2 | 18.3 | 14.2 | 16.0 | 16.0 | 20.4 | 21.3 | 23.0 | 17.7 | 30.1 | 20.4 | 16.8 | 53.2 |
| 7 | 100 | 12.5 | 16.7 | 20.8 | 17.2 | 13.3 | 15.0 | 15.0 | 19.2 | 20.0 | 21.7 | 16.7 | 28.3 | 19.2 | 15.8 | 50.0 |
| 8 | 100 | 11.7 | 15.6 | 19.5 | 16.0 | 12.5 | 14.0 | 14.0 | 17.9 | 18.7 | 20.2 | 15.6 | 26.5 | 17.9 | 14.8 | 46.7 |
| 6 | 110 | 11.2 | 15.0 | 18.7 | 15.4 | 12.0 | 13.5 | 13.5 | 17.2 | 17.9 | 19.4 | 15.0 | 25.4 | 17.2 | 14.2 | 44.9 |
| 7 | 110 | 10.6 | 14.2 | 17.7 | 14.6 | 11.3 | 12.7 | 12.7 | 16.3 | 17.0 | 18.4 | 14.2 | 24.1 | 16.3 | 13.5 | 42.5 |
| 8 | 110 | 9.9 | 13.2 | 16.5 | 13.6 | 10.6 | 11.9 | 11.9 | 15.2 | 15.8 | 17.2 | 13.2 | 22.4 | 15.2 | 12.5 | 39.6 |
| 6 | 125 | 9.2 | 12.2 | 15.3 | 12.6 | 9.8 | 11.0 | 11.0 | 14.1 | 14.7 | 15.9 | 12.2 | 20.8 | 14.1 | 11.6 | 36.7 |
| 7 | 125 | 8.7 | 11.6 | 14.5 | 12.0 | 9.3 | 10.5 | 10.5 | 13.4 | 14.0 | 15.1 | 11.6 | 19.8 | 13.4 | 11.1 | 34.9 |
| 8 | 125 | 8.1 | 10.8 | 13.5 | 11.1 | 8.6 | 9.7 | 9.7 | 12.4 | 12.9 | 14.0 | 10.8 | 18.3 | 12.4 | 10.2 | 32.4 |

Thin Paint or Rusted Thin Paint

Hard Coating

High Profile Range

SSPC-SP 5

Tables 3113 CP

| Operating Conditions | | Consumption Rate lbs/ft² of Blasting | | | | | | | | | | | | | | |
|----------------------|----------------|--------------------------------------|--------|------|-----------------------------|------|--------|------|--------------------------------|------------|--------|--------|--------------|---------|-------|------|
| | | Typical Mineral Abrasive | | | Refinery & By-Product Grits | | | | Natural or Mined Grits & Sands | | | | Manufactured | | | |
| Nozzle Size | Pressure (psi) | -25% | Median | +25% | Copper | Coal | Nickel | Iron | Olivine | Staurolite | Garnet | Silica | Zircon | Alumina | Glass | |
| 6 | 90 | 4.4 | 5.9 | 7.4 | 6.1 | 4.7 | 5.3 | 5.3 | 6.8 | 7.1 | 7.7 | 5.9 | 10.0 | 6.8 | 5.6 | 17.7 |
| 7 | 90 | 4.4 | 5.8 | 7.3 | 6.0 | 4.7 | 5.3 | 5.3 | 6.7 | 7.0 | 7.6 | 5.8 | 9.9 | 6.7 | 5.5 | 17.5 |
| 8 | 90 | 4.1 | 5.4 | 6.8 | 5.6 | 4.3 | 4.9 | 4.9 | 6.2 | 6.5 | 7.1 | 5.4 | 9.2 | 6.2 | 5.2 | 16.3 |
| 6 | 100 | 3.8 | 5.1 | 6.4 | 5.3 | 4.1 | 4.6 | 4.6 | 5.9 | 6.1 | 6.7 | 5.1 | 8.7 | 5.9 | 4.9 | 15.4 |
| 7 | 100 | 3.8 | 5.0 | 6.3 | 5.2 | 4.0 | 4.5 | 4.5 | 5.8 | 6.0 | 6.5 | 5.0 | 8.5 | 5.8 | 4.8 | 15.1 |
| 8 | 100 | 3.5 | 4.7 | 5.8 | 4.8 | 3.7 | 4.2 | 4.2 | 5.4 | 5.6 | 6.0 | 4.7 | 7.9 | 5.4 | 4.4 | 14.0 |
| 6 | 110 | 3.2 | 4.3 | 5.4 | 4.5 | 3.5 | 3.9 | 3.9 | 5.0 | 5.2 | 5.6 | 4.3 | 7.4 | 5.0 | 4.1 | 13.0 |
| 7 | 110 | 3.2 | 4.3 | 5.4 | 4.4 | 3.4 | 3.9 | 3.9 | 4.9 | 5.1 | 5.6 | 4.3 | 7.3 | 4.9 | 4.1 | 12.9 |
| 8 | 110 | 3.0 | 3.9 | 4.9 | 4.1 | 3.2 | 3.6 | 3.6 | 4.5 | 4.7 | 5.1 | 3.9 | 6.7 | 4.5 | 3.8 | 11.8 |
| 6 | 125 | 2.6 | 3.5 | 4.4 | 3.6 | 2.8 | 3.2 | 3.2 | 4.1 | 4.2 | 4.6 | 3.5 | 6.0 | 4.1 | 3.4 | 10.6 |
| 7 | 125 | 2.6 | 3.5 | 4.4 | 3.6 | 2.8 | 3.1 | 3.1 | 4.0 | 4.2 | 4.5 | 3.5 | 5.9 | 4.0 | 3.3 | 10.5 |
| 8 | 125 | 2.4 | 3.2 | 4.0 | 3.3 | 2.6 | 2.9 | 2.9 | 3.7 | 3.9 | 4.2 | 3.2 | 5.5 | 3.7 | 3.1 | 9.7 |

Thin Paint or Rusted Thin Paint

Hard Coating

Low Profile Range

SSPC-SP 10

Tables

3121

CP

| Operating Conditions | | Consumption Rate lbs/ft² of Blasting | | | | | | | | | | | | | | |
|----------------------|----------------|--------------------------------------|--------|------|-----------------------------|------|--------|------|--------------------------------|------------|--------|--------|--------------|---------|-------|------|
| | | Typical Mineral Abrasive | | | Refinery & By-Product Grits | | | | Natural or Mined Grits & Sands | | | | Manufactured | | | |
| Nozzle Size | Pressure (psi) | -25% | Median | +25% | Copper | Coal | Nickel | Iron | Olivine | Staurolite | Garnet | Silica | Zircon | Alumina | Glass | |
| 6 | 90 | 6.7 | 8.9 | 11.1 | 9.2 | 7.1 | 8.0 | 8.0 | 10.3 | 10.7 | 11.6 | 8.9 | 15.2 | 10.3 | 8.5 | 26.7 |
| 7 | 90 | 6.6 | 8.8 | 11.0 | 9.0 | 7.0 | 7.9 | 7.9 | 10.1 | 10.5 | 11.4 | 8.8 | 14.9 | 10.1 | 8.3 | 26.3 |
| 8 | 90 | 6.1 | 8.1 | 10.2 | 8.4 | 6.5 | 7.3 | 7.3 | 9.4 | 9.8 | 10.6 | 8.1 | 13.8 | 9.4 | 7.7 | 24.4 |
| 6 | 100 | 5.8 | 7.7 | 9.6 | 7.9 | 6.1 | 6.9 | 6.9 | 8.8 | 9.2 | 10.0 | 7.7 | 13.1 | 8.8 | 7.3 | 23.0 |
| 7 | 100 | 5.7 | 7.5 | 9.4 | 7.8 | 6.0 | 6.8 | 6.8 | 8.7 | 9.1 | 9.8 | 7.5 | 12.8 | 8.7 | 7.2 | 22.6 |
| 8 | 100 | 5.2 | 7.0 | 8.7 | 7.2 | 5.6 | 6.3 | 6.3 | 8.0 | 8.4 | 9.1 | 7.0 | 11.9 | 8.0 | 6.6 | 20.9 |
| 6 | 110 | 4.9 | 6.5 | 8.2 | 6.7 | 5.2 | 5.9 | 5.9 | 7.5 | 7.8 | 8.5 | 6.5 | 11.1 | 7.5 | 6.2 | 19.6 |
| 7 | 110 | 4.8 | 6.4 | 8.0 | 6.6 | 5.1 | 5.8 | 5.8 | 7.4 | 7.7 | 8.4 | 6.4 | 10.9 | 7.4 | 6.1 | 19.3 |
| 8 | 110 | 4.4 | 5.9 | 7.4 | 6.1 | 4.7 | 5.3 | 5.3 | 6.8 | 7.1 | 7.7 | 5.9 | 10.1 | 6.8 | 5.6 | 17.8 |
| 6 | 125 | 4.0 | 5.3 | 6.6 | 5.5 | 4.2 | 4.8 | 4.8 | 6.1 | 6.4 | 6.9 | 5.3 | 9.0 | 6.1 | 5.0 | 15.9 |
| 7 | 125 | 3.9 | 5.2 | 6.6 | 5.4 | 4.2 | 4.7 | 4.7 | 6.0 | 6.3 | 6.8 | 5.2 | 8.9 | 6.0 | 5.0 | 15.7 |
| 8 | 125 | 3.6 | 4.8 | 6.1 | 5.0 | 3.9 | 4.4 | 4.4 | 5.6 | 5.8 | 6.3 | 4.8 | 8.2 | 5.6 | 4.6 | 14.5 |

Thin Paint or Rusted Thin Paint

Hard Coating

Medium Profile Range

SSPC-SP 10

Tables 3122 CP

| Operating Conditions | | Consumption Rate lbs/ft² of Blasting | | | | | | | | | | | | | | |
|----------------------|----------------|--------------------------------------|--------|------|-----------------------------|------|--------|------|--------------------------------|------------|--------|--------|--------------|---------|-------|------------|
| | | Typical Mineral Abrasive | | | Refinery & By-Product Grits | | | | Natural or Mined Grits & Sands | | | | Manufactured | | | |
| Nozzle Size | Pressure (psi) | -25% | Median | +25% | Copper | Coal | Nickel | Iron | Olivine | Staurolite | Garnet | Silica | Zircon | Alumina | Glass | Steel Iron |
| 6 | 90 | 13.4 | 17.8 | 22.3 | 18.4 | 14.3 | 16.0 | 16.0 | 20.5 | 21.4 | 23.2 | 17.8 | 30.3 | 20.5 | 16.9 | 53.5 |
| 7 | 90 | 13.1 | 17.4 | 21.8 | 18.0 | 14.0 | 15.7 | 15.7 | 20.1 | 20.9 | 22.7 | 17.4 | 29.7 | 20.1 | 16.6 | 52.3 |
| 8 | 90 | 12.2 | 16.3 | 20.4 | 16.8 | 13.0 | 14.7 | 14.7 | 18.7 | 19.5 | 21.2 | 16.3 | 27.7 | 18.7 | 15.5 | 48.8 |
| 6 | 100 | 11.5 | 15.4 | 19.2 | 15.8 | 12.3 | 13.8 | 13.8 | 17.7 | 18.4 | 20.0 | 15.4 | 26.1 | 17.7 | 14.6 | 46.1 |
| 7 | 100 | 11.3 | 15.1 | 18.9 | 15.5 | 12.1 | 13.6 | 13.6 | 17.3 | 18.1 | 19.6 | 15.1 | 25.6 | 17.3 | 14.3 | 45.3 |
| 8 | 100 | 10.5 | 14.0 | 17.4 | 14.4 | 11.2 | 12.6 | 12.6 | 16.1 | 16.8 | 18.1 | 14.0 | 23.7 | 16.1 | 13.3 | 41.9 |
| 6 | 110 | 9.8 | 13.0 | 16.3 | 13.4 | 10.4 | 11.7 | 11.7 | 15.0 | 15.7 | 17.0 | 13.0 | 22.2 | 15.0 | 12.4 | 39.1 |
| 7 | 110 | 9.7 | 12.9 | 16.1 | 13.3 | 10.3 | 11.6 | 11.6 | 14.8 | 15.4 | 16.7 | 12.9 | 21.9 | 14.8 | 12.2 | 38.6 |
| 8 | 110 | 8.9 | 11.8 | 14.8 | 12.2 | 9.5 | 10.6 | 10.6 | 13.6 | 14.2 | 15.4 | 11.8 | 20.1 | 13.6 | 11.2 | 35.5 |
| 6 | 125 | 7.9 | 10.6 | 13.2 | 10.9 | 8.4 | 9.5 | 9.5 | 12.1 | 12.7 | 13.7 | 10.6 | 17.9 | 12.1 | 10.0 | 31.7 |
| 7 | 125 | 7.9 | 10.5 | 13.1 | 10.8 | 8.4 | 9.4 | 9.4 | 12.1 | 12.6 | 13.6 | 10.5 | 17.8 | 12.1 | 10.0 | 31.5 |
| 8 | 125 | 7.3 | 9.7 | 12.1 | 10.0 | 7.7 | 8.7 | 8.7 | 11.1 | 11.6 | 12.6 | 9.7 | 16.5 | 11.1 | 9.2 | 29.0 |

Thin Paint or Rusted Thin Paint

Hard Coating

High Profile Range

SSPC-SP 10

Tables 3123 CP

| Operating Conditions | | Consumption Rate lbs/ft² of Blasting | | | | | | | | | | | | | | |
|----------------------|----------------|--------------------------------------|--------|------|-----------------------------|------|--------|------|--------------------------------|------------|--------|--------|--------------|---------|-------|-----|
| | | Typical Mineral Abrasive | | | Refinery & By-Product Grits | | | | Natural or Mined Grits & Sands | | | | Manufactured | | | |
| Nozzle Size | Pressure (psi) | -25% | Median | +25% | Copper | Coal | Nickel | Iron | Olivine | Staurolite | Garnet | Silica | Zircon | Alumina | Glass | |
| 6 | 90 | 2.2 | 3.0 | 3.7 | 3.1 | 2.4 | 2.7 | 2.7 | 3.4 | 3.6 | 3.9 | 3.0 | 5.1 | 3.4 | 2.8 | 8.9 |
| 7 | 90 | 2.0 | 2.7 | 3.4 | 2.8 | 2.2 | 2.5 | 2.5 | 3.1 | 3.3 | 3.5 | 2.7 | 4.6 | 3.1 | 2.6 | 8.2 |
| 8 | 90 | 2.0 | 2.6 | 3.3 | 2.7 | 2.1 | 2.4 | 2.4 | 3.0 | 3.1 | 3.4 | 2.6 | 4.5 | 3.0 | 2.5 | 7.9 |
| 6 | 100 | 1.9 | 2.6 | 3.2 | 2.6 | 2.0 | 2.3 | 2.3 | 2.9 | 3.1 | 3.3 | 2.6 | 4.4 | 2.9 | 2.4 | 7.7 |
| 7 | 100 | 1.8 | 2.3 | 2.9 | 2.4 | 1.9 | 2.1 | 2.1 | 2.7 | 2.8 | 3.1 | 2.3 | 4.0 | 2.7 | 2.2 | 7.0 |
| 8 | 100 | 1.7 | 2.2 | 2.8 | 2.3 | 1.8 | 2.0 | 2.0 | 2.6 | 2.7 | 2.9 | 2.2 | 3.8 | 2.6 | 2.1 | 6.7 |
| 6 | 110 | 1.6 | 2.2 | 2.7 | 2.2 | 1.7 | 1.9 | 1.9 | 2.5 | 2.6 | 2.8 | 2.2 | 3.7 | 2.5 | 2.1 | 6.5 |
| 7 | 110 | 1.5 | 2.0 | 2.5 | 2.1 | 1.6 | 1.8 | 1.8 | 2.3 | 2.4 | 2.6 | 2.0 | 3.4 | 2.3 | 1.9 | 6.0 |
| 8 | 110 | 1.4 | 1.9 | 2.4 | 2.0 | 1.5 | 1.7 | 1.7 | 2.2 | 2.3 | 2.5 | 1.9 | 3.2 | 2.2 | 1.8 | 5.7 |
| 6 | 125 | 1.3 | 1.8 | 2.2 | 1.8 | 1.4 | 1.6 | 1.6 | 2.0 | 2.1 | 2.3 | 1.8 | 3.0 | 2.0 | 1.7 | 5.3 |
| 7 | 125 | 1.2 | 1.6 | 2.0 | 1.7 | 1.3 | 1.5 | 1.5 | 1.9 | 2.0 | 2.1 | 1.6 | 2.8 | 1.9 | 1.6 | 4.9 |
| 8 | 125 | 1.2 | 1.6 | 1.9 | 1.6 | 1.2 | 1.4 | 1.4 | 1.8 | 1.9 | 2.0 | 1.6 | 2.6 | 1.8 | 1.5 | 4.7 |

Thin Paint or Rusted Thin Paint

Hard Coating

Low Profile Range

SSPC-SP 6

Tables

3131

CP

| Operating Conditions | | Consumption Rate lbs/ft² of Blasting | | | | | | | | | | | | | | |
|----------------------|----------------|--------------------------------------|--------|------|-----------------------------|------|--------|------|--------------------------------|------------|--------|--------|--------------|---------|-------|------|
| | | Typical Mineral Abrasive | | | Refinery & By-Product Grits | | | | Natural or Mined Grits & Sands | | | | Manufactured | | | |
| Nozzle Size | Pressure (psi) | -25% | Median | +25% | Copper | Coal | Nickel | Iron | Olivine | Staurolite | Garnet | Silica | Zircon | Alumina | Glass | |
| 6 | 90 | 3.3 | 4.5 | 5.6 | 4.6 | 3.6 | 4.0 | 4.0 | 5.1 | 5.3 | 5.8 | 4.5 | 7.6 | 5.1 | 4.2 | 13.4 |
| 7 | 90 | 3.1 | 4.1 | 5.1 | 4.2 | 3.3 | 3.7 | 3.7 | 4.7 | 4.9 | 5.3 | 4.1 | 7.0 | 4.7 | 3.9 | 12.3 |
| 8 | 90 | 2.9 | 3.9 | 4.9 | 4.0 | 3.1 | 3.5 | 3.5 | 4.5 | 4.7 | 5.1 | 3.9 | 6.7 | 4.5 | 3.7 | 11.8 |
| 6 | 100 | 2.9 | 3.8 | 4.8 | 4.0 | 3.1 | 3.5 | 3.5 | 4.4 | 4.6 | 5.0 | 3.8 | 6.5 | 4.4 | 3.6 | 11.5 |
| 7 | 100 | 2.6 | 3.5 | 4.4 | 3.6 | 2.8 | 3.2 | 3.2 | 4.0 | 4.2 | 4.6 | 3.5 | 6.0 | 4.0 | 3.3 | 10.6 |
| 8 | 100 | 2.5 | 3.4 | 4.2 | 3.5 | 2.7 | 3.0 | 3.0 | 3.9 | 4.0 | 4.4 | 3.4 | 5.7 | 3.9 | 3.2 | 10.1 |
| 6 | 110 | 2.4 | 3.2 | 4.1 | 3.3 | 2.6 | 2.9 | 2.9 | 3.7 | 3.9 | 4.2 | 3.2 | 5.5 | 3.7 | 3.1 | 9.7 |
| 7 | 110 | 2.2 | 3.0 | 3.7 | 3.1 | 2.4 | 2.7 | 2.7 | 3.4 | 3.6 | 3.9 | 3.0 | 5.1 | 3.4 | 2.8 | 9.0 |
| 8 | 110 | 2.1 | 2.9 | 3.6 | 3.0 | 2.3 | 2.6 | 2.6 | 3.3 | 3.4 | 3.7 | 2.9 | 4.9 | 3.3 | 2.7 | 8.6 |
| 6 | 125 | 2.0 | 2.7 | 3.3 | 2.7 | 2.1 | 2.4 | 2.4 | 3.1 | 3.2 | 3.4 | 2.7 | 4.5 | 3.1 | 2.5 | 8.0 |
| 7 | 125 | 1.8 | 2.4 | 3.1 | 2.5 | 2.0 | 2.2 | 2.2 | 2.8 | 2.9 | 3.2 | 2.4 | 4.2 | 2.8 | 2.3 | 7.3 |
| 8 | 125 | 1.8 | 2.3 | 2.9 | 2.4 | 1.9 | 2.1 | 2.1 | 2.7 | 2.8 | 3.0 | 2.3 | 4.0 | 2.7 | 2.2 | 7.0 |

Thin Paint or Rusted Thin Paint

Hard Coating

Medium Profile Range

SSPC-SP 6

Tables 3132 CP

| Operating Conditions | | Consumption Rate lbs/ft² of Blasting | | | | | | | | | | | | | | |
|----------------------|----------------|--------------------------------------|--------|------|-----------------------------|------|--------|------|--------------------------------|------------|--------|--------|--------------|---------|-------|------|
| | | Typical Mineral Abrasive | | | Refinery & By-Product Grits | | | | Natural or Mined Grits & Sands | | | | Manufactured | | | |
| Nozzle Size | Pressure (psi) | -25% | Median | +25% | Copper | Coal | Nickel | Iron | Olivine | Staurolite | Garnet | Silica | Zircon | Alumina | Glass | |
| 6 | 90 | 6.7 | 8.9 | 11.1 | 9.2 | 7.1 | 8.0 | 8.0 | 10.3 | 10.7 | 11.6 | 8.9 | 15.2 | 10.3 | 8.5 | 26.7 |
| 7 | 90 | 6.1 | 8.2 | 10.2 | 8.4 | 6.5 | 7.4 | 7.4 | 9.4 | 9.8 | 10.6 | 8.2 | 13.9 | 9.4 | 7.8 | 24.5 |
| 8 | 90 | 5.9 | 7.9 | 9.8 | 8.1 | 6.3 | 7.1 | 7.1 | 9.0 | 9.4 | 10.2 | 7.9 | 13.4 | 9.0 | 7.5 | 23.6 |
| 6 | 100 | 5.8 | 7.7 | 9.6 | 7.9 | 6.1 | 6.9 | 6.9 | 8.8 | 9.2 | 10.0 | 7.7 | 13.1 | 8.8 | 7.3 | 23.0 |
| 7 | 100 | 5.3 | 7.0 | 8.8 | 7.3 | 5.6 | 6.3 | 6.3 | 8.1 | 8.4 | 9.2 | 7.0 | 12.0 | 8.1 | 6.7 | 21.1 |
| 8 | 100 | 5.1 | 6.7 | 8.4 | 6.9 | 5.4 | 6.1 | 6.1 | 7.8 | 8.1 | 8.8 | 6.7 | 11.5 | 7.8 | 6.4 | 20.2 |
| 6 | 110 | 4.9 | 6.5 | 8.1 | 6.7 | 5.2 | 5.8 | 5.8 | 7.5 | 7.8 | 8.4 | 6.5 | 11.0 | 7.5 | 6.2 | 19.5 |
| 7 | 110 | 4.5 | 6.0 | 7.5 | 6.2 | 4.8 | 5.4 | 5.4 | 6.9 | 7.2 | 7.8 | 6.0 | 10.2 | 6.9 | 5.7 | 18.0 |
| 8 | 110 | 4.3 | 5.7 | 7.2 | 5.9 | 4.6 | 5.2 | 5.2 | 6.6 | 6.9 | 7.5 | 5.7 | 9.8 | 6.6 | 5.5 | 17.2 |
| 6 | 125 | 4.0 | 5.3 | 6.6 | 5.5 | 4.2 | 4.8 | 4.8 | 6.1 | 6.4 | 6.9 | 5.3 | 9.0 | 6.1 | 5.0 | 15.9 |
| 7 | 125 | 3.7 | 4.9 | 6.1 | 5.0 | 3.9 | 4.4 | 4.4 | 5.6 | 5.9 | 6.4 | 4.9 | 8.3 | 5.6 | 4.7 | 14.7 |
| 8 | 125 | 3.5 | 4.7 | 5.8 | 4.8 | 3.7 | 4.2 | 4.2 | 5.4 | 5.6 | 6.1 | 4.7 | 7.9 | 5.4 | 4.4 | 14.0 |

Thin Paint or Rusted Thin Paint

Hard Coating

High Profile Range

SSPC-SP 6

Tables 3133 CP

| Operating Conditions | | Consumption Rate lbs/ft² of Blasting | | | | | | | | | | | | | | |
|----------------------|----------------|--------------------------------------|--------|------|-----------------------------|------|--------|------|--------------------------------|------------|--------|--------|--------------|---------|-------|------|
| | | Typical Mineral Abrasive | | | Refinery & By-Product Grits | | | | Natural or Mined Grits & Sands | | | | Manufactured | | | |
| Nozzle Size | Pressure (psi) | -25% | Median | +25% | Copper | Coal | Nickel | Iron | Olivine | Staurolite | Garnet | Silica | Zircon | Alumina | Glass | Iron |
| 6 | 90 | 1.0 | 1.3 | 1.7 | 1.4 | 1.1 | 1.2 | 1.2 | 1.5 | 1.6 | 1.7 | 1.3 | 2.3 | 1.5 | 1.3 | 4.0 |
| 7 | 90 | 0.9 | 1.2 | 1.5 | 1.3 | 1.0 | 1.1 | 1.1 | 1.4 | 1.5 | 1.6 | 1.2 | 2.1 | 1.4 | 1.2 | 3.7 |
| 8 | 90 | 0.9 | 1.2 | 1.5 | 1.2 | 0.9 | 1.1 | 1.1 | 1.4 | 1.4 | 1.5 | 1.2 | 2.0 | 1.4 | 1.1 | 3.5 |
| 6 | 100 | 0.9 | 1.2 | 1.4 | 1.2 | 0.9 | 1.0 | 1.0 | 1.3 | 1.4 | 1.5 | 1.2 | 2.0 | 1.3 | 1.1 | 3.5 |
| 7 | 100 | 0.8 | 1.1 | 1.3 | 1.1 | 0.8 | 1.0 | 1.0 | 1.2 | 1.3 | 1.4 | 1.1 | 1.8 | 1.2 | 1.0 | 3.2 |
| 8 | 100 | 0.8 | 1.0 | 1.3 | 1.0 | 0.8 | 0.9 | 0.9 | 1.2 | 1.2 | 1.3 | 1.0 | 1.7 | 1.2 | 1.0 | 3.0 |
| 6 | 110 | 0.7 | 1.0 | 1.2 | 1.0 | 0.8 | 0.9 | 0.9 | 1.1 | 1.2 | 1.3 | 1.0 | 1.7 | 1.1 | 0.9 | 2.9 |
| 7 | 110 | 0.7 | 0.9 | 1.1 | 0.9 | 0.7 | 0.8 | 0.8 | 1.0 | 1.1 | 1.2 | 0.9 | 1.5 | 1.0 | 0.9 | 2.7 |
| 8 | 110 | 0.6 | 0.9 | 1.1 | 0.9 | 0.7 | 0.8 | 0.8 | 1.0 | 1.0 | 1.1 | 0.9 | 1.5 | 1.0 | 0.8 | 2.6 |
| 6 | 125 | 0.6 | 0.8 | 1.0 | 0.8 | 0.6 | 0.7 | 0.7 | 0.9 | 1.0 | 1.0 | 0.8 | 1.4 | 0.9 | 0.8 | 2.4 |
| 7 | 125 | 0.6 | 0.7 | 0.9 | 0.8 | 0.6 | 0.7 | 0.7 | 0.8 | 0.9 | 1.0 | 0.7 | 1.2 | 0.8 | 0.7 | 2.2 |
| 8 | 125 | 0.5 | 0.7 | 0.9 | 0.7 | 0.6 | 0.6 | 0.6 | 0.8 | 0.8 | 0.9 | 0.7 | 1.2 | 0.8 | 0.7 | 2.1 |

Thin Paint or Rusted Thin Paint

Hard Coating

Low Profile Range

SSPC-SP 7

Tables 3141

CP

| Operating Conditions | | Consumption Rate lbs/ft² of Blasting | | | | | | | | | | | | | | |
|----------------------|----------------|--------------------------------------|--------|------|-----------------------------|------|--------|------|--------------------------------|------------|--------|--------|--------------|---------|-------|------|
| | | Typical Mineral Abrasive | | | Refinery & By-Product Grits | | | | Natural or Mined Grits & Sands | | | | Manufactured | | | |
| Nozzle Size | Pressure (psi) | -25% | Median | +25% | Copper | Coal | Nickel | Iron | Olivine | Staurolite | Garnet | Silica | Zircon | Alumina | Glass | |
| 6 | 90 | 3.4 | 4.6 | 5.7 | 4.7 | 3.6 | 4.1 | 4.1 | 5.2 | 5.5 | 5.9 | 4.6 | 7.7 | 5.2 | 4.3 | 13.7 |
| 7 | 90 | 3.2 | 4.3 | 5.4 | 4.4 | 3.4 | 3.9 | 3.9 | 4.9 | 5.2 | 5.6 | 4.3 | 7.3 | 4.9 | 4.1 | 12.9 |
| 8 | 90 | 3.0 | 4.0 | 5.0 | 4.2 | 3.2 | 3.6 | 3.6 | 4.6 | 4.8 | 5.2 | 4.0 | 6.9 | 4.6 | 3.8 | 12.1 |
| 6 | 100 | 2.9 | 3.9 | 4.9 | 4.0 | 3.1 | 3.5 | 3.5 | 4.5 | 4.7 | 5.1 | 3.9 | 6.7 | 4.5 | 3.7 | 11.8 |
| 7 | 100 | 2.8 | 3.7 | 4.6 | 3.8 | 3.0 | 3.3 | 3.3 | 4.3 | 4.4 | 4.8 | 3.7 | 6.3 | 4.3 | 3.5 | 11.1 |
| 8 | 100 | 2.6 | 3.5 | 4.3 | 3.6 | 2.8 | 3.1 | 3.1 | 4.0 | 4.2 | 4.5 | 3.5 | 5.9 | 4.0 | 3.3 | 10.4 |
| 6 | 110 | 2.5 | 3.3 | 4.2 | 3.4 | 2.7 | 3.0 | 3.0 | 3.8 | 4.0 | 4.3 | 3.3 | 5.7 | 3.8 | 3.2 | 10.0 |
| 7 | 110 | 2.4 | 3.2 | 3.9 | 3.3 | 2.5 | 2.8 | 2.8 | 3.6 | 3.8 | 4.1 | 3.2 | 5.4 | 3.6 | 3.0 | 9.5 |
| 8 | 110 | 2.2 | 2.9 | 3.7 | 3.0 | 2.3 | 2.6 | 2.6 | 3.4 | 3.5 | 3.8 | 2.9 | 5.0 | 3.4 | 2.8 | 8.8 |
| 6 | 125 | 2.0 | 2.7 | 3.4 | 2.8 | 2.2 | 2.4 | 2.4 | 3.1 | 3.3 | 3.5 | 2.7 | 4.6 | 3.1 | 2.6 | 8.1 |
| 7 | 125 | 1.9 | 2.6 | 3.2 | 2.7 | 2.1 | 2.3 | 2.3 | 3.0 | 3.1 | 3.4 | 2.6 | 4.4 | 3.0 | 2.4 | 7.7 |
| 8 | 125 | 1.8 | 2.4 | 3.0 | 2.5 | 1.9 | 2.2 | 2.2 | 2.8 | 2.9 | 3.1 | 2.4 | 4.1 | 2.8 | 2.3 | 7.2 |

Thin Paint or Rusted Thin Paint

Soft Coating

Low Profile Range

SSPC-SP 5

Tables 3211 CP

| Operating Conditions | | Consumption Rate lbs/ft² of Blasting | | | | | | | | | | | | | | |
|----------------------|----------------|--------------------------------------|--------|------|-----------------------------|------|--------|------|--------------------------------|------------|--------|--------|--------------|---------|-------|------|
| | | Typical Mineral Abrasive | | | Refinery & By-Product Grits | | | | Natural or Mined Grits & Sands | | | | Manufactured | | | |
| Nozzle Size | Pressure (psi) | -25% | Median | +25% | Copper | Coal | Nickel | Iron | Olivine | Staurolite | Garnet | Silica | Zircon | Alumina | Glass | |
| 6 | 90 | 5.1 | 6.8 | 8.5 | 7.0 | 5.5 | 6.1 | 6.1 | 7.9 | 8.2 | 8.9 | 6.8 | 11.6 | 7.9 | 6.5 | 20.5 |
| 7 | 90 | 4.8 | 6.4 | 8.0 | 6.6 | 5.1 | 5.8 | 5.8 | 7.4 | 7.7 | 8.4 | 6.4 | 10.9 | 7.4 | 6.1 | 19.3 |
| 8 | 90 | 4.5 | 6.0 | 7.6 | 6.2 | 4.8 | 5.4 | 5.4 | 7.0 | 7.3 | 7.9 | 6.0 | 10.3 | 7.0 | 5.7 | 18.1 |
| 6 | 100 | 4.4 | 5.9 | 7.4 | 6.1 | 4.7 | 5.3 | 5.3 | 6.8 | 7.1 | 7.7 | 5.9 | 10.0 | 6.8 | 5.6 | 17.7 |
| 7 | 100 | 4.2 | 5.6 | 6.9 | 5.7 | 4.4 | 5.0 | 5.0 | 6.4 | 6.7 | 7.2 | 5.6 | 9.4 | 6.4 | 5.3 | 16.7 |
| 8 | 100 | 3.9 | 5.2 | 6.5 | 5.3 | 4.2 | 4.7 | 4.7 | 6.0 | 6.2 | 6.7 | 5.2 | 8.8 | 6.0 | 4.9 | 15.6 |
| 6 | 110 | 3.8 | 5.0 | 6.3 | 5.2 | 4.0 | 4.5 | 4.5 | 5.8 | 6.0 | 6.5 | 5.0 | 8.5 | 5.8 | 4.8 | 15.0 |
| 7 | 110 | 3.5 | 4.7 | 5.9 | 4.9 | 3.8 | 4.3 | 4.3 | 5.4 | 5.7 | 6.2 | 4.7 | 8.0 | 5.4 | 4.5 | 14.2 |
| 8 | 110 | 3.3 | 4.4 | 5.5 | 4.5 | 3.5 | 4.0 | 4.0 | 5.1 | 5.3 | 5.7 | 4.4 | 7.5 | 5.1 | 4.2 | 13.2 |
| 6 | 125 | 3.1 | 4.1 | 5.1 | 4.2 | 3.3 | 3.7 | 3.7 | 4.7 | 4.9 | 5.3 | 4.1 | 6.9 | 4.7 | 3.9 | 12.2 |
| 7 | 125 | 2.9 | 3.9 | 4.8 | 4.0 | 3.1 | 3.5 | 3.5 | 4.5 | 4.6 | 5.0 | 3.9 | 6.6 | 4.5 | 3.7 | 11.6 |
| 8 | 125 | 2.7 | 3.6 | 4.5 | 3.7 | 2.9 | 3.2 | 3.2 | 4.1 | 4.3 | 4.7 | 3.6 | 6.1 | 4.1 | 3.4 | 10.8 |

Thin Paint or Rusted Thin Paint

Soft Coating

Medium Profile Range

SSPC-SP 5

Tables 3212 CP

| Operating Conditions | | Consumption Rate lbs/ft² of Blasting | | | | | | | | | | | | | | |
|----------------------|----------------|--------------------------------------|--------|------|-----------------------------|------|--------|------|--------------------------------|------------|--------|--------|--------------|---------|-------|------|
| | | Typical Mineral Abrasive | | | Refinery & By-Product Grits | | | | Natural or Mined Grits & Sands | | | | Manufactured | | | |
| Nozzle Size | Pressure (psi) | -25% | Median | +25% | Copper | Coal | Nickel | Iron | Olivine | Staurolite | Garnet | Silica | Zircon | Alumina | Glass | |
| 6 | 90 | 10.2 | 13.7 | 17.1 | 14.1 | 10.9 | 12.3 | 12.3 | 15.7 | 16.4 | 17.8 | 13.7 | 23.2 | 15.7 | 13.0 | 41.0 |
| 7 | 90 | 9.7 | 12.9 | 16.2 | 13.3 | 10.3 | 11.6 | 11.6 | 14.9 | 15.5 | 16.8 | 12.9 | 22.0 | 14.9 | 12.3 | 38.8 |
| 8 | 90 | 9.1 | 12.1 | 15.2 | 12.5 | 9.7 | 10.9 | 10.9 | 14.0 | 14.6 | 15.8 | 12.1 | 20.6 | 14.0 | 11.5 | 36.4 |
| 6 | 100 | 8.8 | 11.8 | 14.7 | 12.1 | 9.4 | 10.6 | 10.6 | 13.5 | 14.1 | 15.3 | 11.8 | 20.0 | 13.5 | 11.2 | 35.3 |
| 7 | 100 | 8.3 | 11.1 | 13.8 | 11.4 | 8.9 | 10.0 | 10.0 | 12.7 | 13.3 | 14.4 | 11.1 | 18.8 | 12.7 | 10.5 | 33.2 |
| 8 | 100 | 7.8 | 10.4 | 13.0 | 10.7 | 8.3 | 9.3 | 9.3 | 11.9 | 12.5 | 13.5 | 10.4 | 17.6 | 11.9 | 9.9 | 31.1 |
| 6 | 110 | 7.5 | 10.0 | 12.6 | 10.4 | 8.0 | 9.0 | 9.0 | 11.6 | 12.1 | 13.1 | 10.0 | 17.1 | 11.6 | 9.5 | 30.1 |
| 7 | 110 | 7.1 | 9.5 | 11.9 | 9.8 | 7.6 | 8.5 | 8.5 | 10.9 | 11.4 | 12.3 | 9.5 | 16.1 | 10.9 | 9.0 | 28.5 |
| 8 | 110 | 6.6 | 8.8 | 11.0 | 9.1 | 7.0 | 7.9 | 7.9 | 10.1 | 10.6 | 11.4 | 8.8 | 15.0 | 10.1 | 8.4 | 26.4 |
| 6 | 125 | 6.1 | 8.1 | 10.2 | 8.4 | 6.5 | 7.3 | 7.3 | 9.4 | 9.8 | 10.6 | 8.1 | 13.8 | 9.4 | 7.7 | 24.4 |
| 7 | 125 | 5.8 | 7.7 | 9.7 | 8.0 | 6.2 | 7.0 | 7.0 | 8.9 | 9.3 | 10.0 | 7.7 | 13.1 | 8.9 | 7.3 | 23.2 |
| 8 | 125 | 5.4 | 7.2 | 9.0 | 7.4 | 5.8 | 6.5 | 6.5 | 8.3 | 8.6 | 9.3 | 7.2 | 12.2 | 8.3 | 6.8 | 21.6 |

Thin Paint or Rusted Thin Paint

Soft Coating

High Profile Range

SSPC-SP 5

Tables 3213 CP

| Operating Conditions | | Consumption Rate lbs/ft² of Blasting | | | | | | | | | | | | | | |
|----------------------|----------------|--------------------------------------|--------|------|-----------------------------|------|--------|------|--------------------------------|------------|--------|--------|--------------|---------|-------|------|
| | | Typical Mineral Abrasive | | | Refinery & By-Product Grits | | | | Natural or Mined Grits & Sands | | | | Manufactured | | | |
| Nozzle Size | Pressure (psi) | -25% | Median | +25% | Copper | Coal | Nickel | Iron | Olivine | Staurolite | Garnet | Silica | Zircon | Alumina | Glass | |
| 6 | 90 | 3.0 | 4.0 | 4.9 | 4.1 | 3.2 | 3.6 | 3.6 | 4.5 | 4.7 | 5.1 | 4.0 | 6.7 | 4.5 | 3.8 | 11.9 |
| 7 | 90 | 2.9 | 3.9 | 4.9 | 4.0 | 3.1 | 3.5 | 3.5 | 4.5 | 4.7 | 5.1 | 3.9 | 6.6 | 4.5 | 3.7 | 11.7 |
| 8 | 90 | 2.7 | 3.6 | 4.5 | 3.7 | 2.9 | 3.3 | 3.3 | 4.2 | 4.3 | 4.7 | 3.6 | 6.2 | 4.2 | 3.4 | 10.9 |
| 6 | 100 | 2.6 | 3.4 | 4.3 | 3.5 | 2.7 | 3.1 | 3.1 | 3.9 | 4.1 | 4.4 | 3.4 | 5.8 | 3.9 | 3.2 | 10.2 |
| 7 | 100 | 2.5 | 3.3 | 4.2 | 3.4 | 2.7 | 3.0 | 3.0 | 3.9 | 4.0 | 4.4 | 3.3 | 5.7 | 3.9 | 3.2 | 10.0 |
| 8 | 100 | 2.3 | 3.1 | 3.9 | 3.2 | 2.5 | 2.8 | 2.8 | 3.6 | 3.7 | 4.0 | 3.1 | 5.3 | 3.6 | 2.9 | 9.3 |
| 6 | 110 | 2.2 | 2.9 | 3.6 | 3.0 | 2.3 | 2.6 | 2.6 | 3.3 | 3.5 | 3.8 | 2.9 | 4.9 | 3.3 | 2.7 | 8.7 |
| 7 | 110 | 2.1 | 2.9 | 3.6 | 2.9 | 2.3 | 2.6 | 2.6 | 3.3 | 3.4 | 3.7 | 2.9 | 4.9 | 3.3 | 2.7 | 8.6 |
| 8 | 110 | 2.0 | 2.6 | 3.3 | 2.7 | 2.1 | 2.4 | 2.4 | 3.0 | 3.2 | 3.4 | 2.6 | 4.5 | 3.0 | 2.5 | 7.9 |
| 6 | 125 | 1.8 | 2.4 | 2.9 | 2.4 | 1.9 | 2.1 | 2.1 | 2.7 | 2.8 | 3.1 | 2.4 | 4.0 | 2.7 | 2.2 | 7.1 |
| 7 | 125 | 1.7 | 2.3 | 2.9 | 2.4 | 1.9 | 2.1 | 2.1 | 2.7 | 2.8 | 3.0 | 2.3 | 4.0 | 2.7 | 2.2 | 7.0 |
| 8 | 125 | 1.6 | 2.2 | 2.7 | 2.2 | 1.7 | 1.9 | 1.9 | 2.5 | 2.6 | 2.8 | 2.2 | 3.7 | 2.5 | 2.0 | 6.5 |

Thin Paint or Rusted Thin Paint

Soft Coating

Low Profile Range

SSPC-SP 10

Tables

3221

CP

| Operating Conditions | | Consumption Rate lbs/ft² of Blasting | | | | | | | | | | | | | | |
|----------------------|----------------|--------------------------------------|--------|------|-----------------------------|------|--------|------|--------------------------------|------------|--------|--------|--------------|---------|-------|------|
| | | Typical Mineral Abrasive | | | Refinery & By-Product Grits | | | | Natural or Mined Grits & Sands | | | | Manufactured | | | |
| Nozzle Size | Pressure (psi) | -25% | Median | +25% | Copper | Coal | Nickel | Iron | Olivine | Staurolite | Garnet | Silica | Zircon | Alumina | Glass | Iron |
| 6 | 90 | 4.4 | 5.9 | 7.4 | 6.1 | 4.7 | 5.3 | 5.3 | 6.8 | 7.1 | 7.7 | 5.9 | 10.0 | 6.8 | 5.6 | 17.7 |
| 7 | 90 | 4.4 | 5.8 | 7.3 | 6.0 | 4.7 | 5.3 | 5.3 | 6.7 | 7.0 | 7.6 | 5.8 | 9.9 | 6.7 | 5.5 | 17.5 |
| 8 | 90 | 4.1 | 5.4 | 6.8 | 5.6 | 4.3 | 4.9 | 4.9 | 6.2 | 6.5 | 7.1 | 5.4 | 9.2 | 6.2 | 5.2 | 16.3 |
| 6 | 100 | 3.8 | 5.1 | 6.4 | 5.3 | 4.1 | 4.6 | 4.6 | 5.9 | 6.1 | 6.7 | 5.1 | 8.7 | 5.9 | 4.9 | 15.4 |
| 7 | 100 | 3.8 | 5.0 | 6.3 | 5.2 | 4.0 | 4.5 | 4.5 | 5.8 | 6.0 | 6.5 | 5.0 | 8.5 | 5.8 | 4.8 | 15.1 |
| 8 | 100 | 3.5 | 4.7 | 5.8 | 4.8 | 3.7 | 4.2 | 4.2 | 5.4 | 5.6 | 6.0 | 4.7 | 7.9 | 5.4 | 4.4 | 14.0 |
| 6 | 110 | 3.2 | 4.3 | 5.4 | 4.5 | 3.5 | 3.9 | 3.9 | 5.0 | 5.2 | 5.6 | 4.3 | 7.4 | 5.0 | 4.1 | 13.0 |
| 7 | 110 | 3.2 | 4.3 | 5.4 | 4.4 | 3.4 | 3.9 | 3.9 | 4.9 | 5.1 | 5.6 | 4.3 | 7.3 | 4.9 | 4.1 | 12.9 |
| 8 | 110 | 3.0 | 3.9 | 4.9 | 4.1 | 3.2 | 3.6 | 3.6 | 4.5 | 4.7 | 5.1 | 3.9 | 6.7 | 4.5 | 3.8 | 11.8 |
| 6 | 125 | 2.6 | 3.5 | 4.4 | 3.6 | 2.8 | 3.2 | 3.2 | 4.1 | 4.2 | 4.6 | 3.5 | 6.0 | 4.1 | 3.4 | 10.6 |
| 7 | 125 | 2.6 | 3.5 | 4.4 | 3.6 | 2.8 | 3.1 | 3.1 | 4.0 | 4.2 | 4.5 | 3.5 | 5.9 | 4.0 | 3.3 | 10.5 |
| 8 | 125 | 2.4 | 3.2 | 4.0 | 3.3 | 2.6 | 2.9 | 2.9 | 3.7 | 3.9 | 4.2 | 3.2 | 5.5 | 3.7 | 3.1 | 9.7 |

Thin Paint or Rusted Thin Paint

Soft Coating

Medium Profile Range

SSPC-SP 10

Tables 3222 CP

| Operating Conditions | | Consumption Rate lbs/ft² of Blasting | | | | | | | | | | | | | | |
|----------------------|----------------|--------------------------------------|--------|------|-----------------------------|------|--------|------|--------------------------------|------------|--------|--------|--------------|---------|-------|------|
| | | Typical Mineral Abrasive | | | Refinery & By-Product Grits | | | | Natural or Mined Grits & Sands | | | | Manufactured | | | |
| Nozzle Size | Pressure (psi) | -25% | Median | +25% | Copper | Coal | Nickel | Iron | Olivine | Staurolite | Garnet | Silica | Zircon | Alumina | Glass | |
| 6 | 90 | 8.9 | 11.8 | 14.8 | 12.2 | 9.5 | 10.6 | 10.6 | 13.6 | 14.2 | 15.4 | 11.8 | 20.1 | 13.6 | 11.2 | 35.5 |
| 7 | 90 | 8.8 | 11.7 | 14.6 | 12.0 | 9.3 | 10.5 | 10.5 | 13.4 | 14.0 | 15.2 | 11.7 | 19.9 | 13.4 | 11.1 | 35.0 |
| 8 | 90 | 8.1 | 10.9 | 13.6 | 11.2 | 8.7 | 9.8 | 9.8 | 12.5 | 13.0 | 14.1 | 10.9 | 18.5 | 12.5 | 10.3 | 32.6 |
| 6 | 100 | 7.6 | 10.2 | 12.7 | 10.5 | 8.2 | 9.2 | 9.2 | 11.7 | 12.2 | 13.3 | 10.2 | 17.3 | 11.7 | 9.7 | 30.6 |
| 7 | 100 | 7.5 | 10.0 | 12.5 | 10.3 | 8.0 | 9.0 | 9.0 | 11.5 | 12.0 | 13.0 | 10.0 | 17.0 | 11.5 | 9.5 | 30.1 |
| 8 | 100 | 7.0 | 9.3 | 11.6 | 9.6 | 7.4 | 8.4 | 8.4 | 10.7 | 11.1 | 12.1 | 9.3 | 15.8 | 10.7 | 8.8 | 27.9 |
| 6 | 110 | 6.5 | 8.7 | 10.9 | 9.0 | 7.0 | 7.8 | 7.8 | 10.0 | 10.4 | 11.3 | 8.7 | 14.8 | 10.0 | 8.3 | 26.1 |
| 7 | 110 | 6.4 | 8.6 | 10.7 | 8.8 | 6.9 | 7.7 | 7.7 | 9.9 | 10.3 | 11.2 | 8.6 | 14.6 | 9.9 | 8.2 | 25.7 |
| 8 | 110 | 5.9 | 7.9 | 9.9 | 8.1 | 6.3 | 7.1 | 7.1 | 9.1 | 9.5 | 10.3 | 7.9 | 13.4 | 9.1 | 7.5 | 23.7 |
| 6 | 125 | 5.3 | 7.1 | 8.8 | 7.3 | 5.7 | 6.4 | 6.4 | 8.1 | 8.5 | 9.2 | 7.1 | 12.0 | 8.1 | 6.7 | 21.2 |
| 7 | 125 | 5.2 | 7.0 | 8.7 | 7.2 | 5.6 | 6.3 | 6.3 | 8.0 | 8.4 | 9.1 | 7.0 | 11.9 | 8.0 | 6.6 | 21.0 |
| 8 | 125 | 4.8 | 6.5 | 8.1 | 6.6 | 5.2 | 5.8 | 5.8 | 7.4 | 7.7 | 8.4 | 6.5 | 11.0 | 7.4 | 6.1 | 19.4 |

Thin Paint or Rusted Thin Paint

Soft Coating

High Profile Range

SSPC-SP 10

Tables 3223 CP

| Operating Conditions | | Consumption Rate lbs/ft² of Blasting | | | | | | | | | | | | | | |
|----------------------|----------------|--------------------------------------|--------|------|-----------------------------|------|--------|------|--------------------------------|------------|--------|--------|--------------|---------|-------|-----|
| | | Typical Mineral Abrasive | | | Refinery & By-Product Grits | | | | Natural or Mined Grits & Sands | | | | Manufactured | | | |
| Nozzle Size | Pressure (psi) | -25% | Median | +25% | Copper | Coal | Nickel | Iron | Olivine | Staurolite | Garnet | Silica | Zircon | Alumina | Glass | |
| 6 | 90 | 1.5 | 2.0 | 2.5 | 2.0 | 1.6 | 1.8 | 1.8 | 2.3 | 2.4 | 2.6 | 2.0 | 3.4 | 2.3 | 1.9 | 5.9 |
| 7 | 90 | 1.4 | 1.8 | 2.3 | 1.9 | 1.5 | 1.6 | 1.6 | 2.1 | 2.2 | 2.4 | 1.8 | 3.1 | 2.1 | 1.7 | 5.5 |
| 8 | 90 | 1.3 | 1.7 | 2.2 | 1.8 | 1.4 | 1.6 | 1.6 | 2.0 | 2.1 | 2.3 | 1.7 | 3.0 | 2.0 | 1.7 | 5.2 |
| 6 | 100 | 1.3 | 1.7 | 2.1 | 1.8 | 1.4 | 1.5 | 1.5 | 2.0 | 2.0 | 2.2 | 1.7 | 2.9 | 2.0 | 1.6 | 5.1 |
| 7 | 100 | 1.2 | 1.6 | 2.0 | 1.6 | 1.3 | 1.4 | 1.4 | 1.8 | 1.9 | 2.0 | 1.6 | 2.7 | 1.8 | 1.5 | 4.7 |
| 8 | 100 | 1.1 | 1.5 | 1.9 | 1.5 | 1.2 | 1.3 | 1.3 | 1.7 | 1.8 | 1.9 | 1.5 | 2.5 | 1.7 | 1.4 | 4.5 |
| 6 | 110 | 1.1 | 1.4 | 1.8 | 1.5 | 1.2 | 1.3 | 1.3 | 1.7 | 1.7 | 1.9 | 1.4 | 2.4 | 1.7 | 1.4 | 4.3 |
| 7 | 110 | 1.0 | 1.3 | 1.7 | 1.4 | 1.1 | 1.2 | 1.2 | 1.5 | 1.6 | 1.7 | 1.3 | 2.3 | 1.5 | 1.3 | 4.0 |
| 8 | 110 | 1.0 | 1.3 | 1.6 | 1.3 | 1.0 | 1.1 | 1.1 | 1.5 | 1.5 | 1.7 | 1.3 | 2.2 | 1.5 | 1.2 | 3.8 |
| 6 | 125 | 0.9 | 1.2 | 1.5 | 1.2 | 0.9 | 1.1 | 1.1 | 1.4 | 1.4 | 1.5 | 1.2 | 2.0 | 1.4 | 1.1 | 3.5 |
| 7 | 125 | 0.8 | 1.1 | 1.4 | 1.1 | 0.9 | 1.0 | 1.0 | 1.3 | 1.3 | 1.4 | 1.1 | 1.9 | 1.3 | 1.0 | 3.3 |
| 8 | 125 | 0.8 | 1.0 | 1.3 | 1.1 | 0.8 | 0.9 | 0.9 | 1.2 | 1.2 | 1.4 | 1.0 | 1.8 | 1.2 | 1.0 | 3.1 |

Thin Paint or Rusted Thin Paint

Soft Coating

Low Profile Range

SSPC-SP 6

Tables 3231 CP

| Operating Conditions | | Consumption Rate lbs/ft² of Blasting | | | | | | | | | | | | | | |
|----------------------|----------------|--------------------------------------|--------|------|-----------------------------|------|--------|------|--------------------------------|------------|--------|--------|--------------|---------|-------|------|
| | | Typical Mineral Abrasive | | | Refinery & By-Product Grits | | | | Natural or Mined Grits & Sands | | | | Manufactured | | | |
| Nozzle Size | Pressure (psi) | -25% | Median | +25% | Copper | Coal | Nickel | Iron | Olivine | Staurolite | Garnet | Silica | Zircon | Alumina | Glass | Iron |
| 6 | 90 | 2.2 | 3.0 | 3.7 | 3.1 | 2.4 | 2.7 | 2.7 | 3.4 | 3.6 | 3.9 | 3.0 | 5.1 | 3.4 | 2.8 | 8.9 |
| 7 | 90 | 2.0 | 2.7 | 3.4 | 2.8 | 2.2 | 2.5 | 2.5 | 3.1 | 3.3 | 3.5 | 2.7 | 4.6 | 3.1 | 2.6 | 8.2 |
| 8 | 90 | 2.0 | 2.6 | 3.3 | 2.7 | 2.1 | 2.4 | 2.4 | 3.0 | 3.1 | 3.4 | 2.6 | 4.5 | 3.0 | 2.5 | 7.9 |
| 6 | 100 | 1.9 | 2.6 | 3.2 | 2.6 | 2.0 | 2.3 | 2.3 | 2.9 | 3.1 | 3.3 | 2.6 | 4.4 | 2.9 | 2.4 | 7.7 |
| 7 | 100 | 1.8 | 2.3 | 2.9 | 2.4 | 1.9 | 2.1 | 2.1 | 2.7 | 2.8 | 3.1 | 2.3 | 4.0 | 2.7 | 2.2 | 7.0 |
| 8 | 100 | 1.7 | 2.2 | 2.8 | 2.3 | 1.8 | 2.0 | 2.0 | 2.6 | 2.7 | 2.9 | 2.2 | 3.8 | 2.6 | 2.1 | 6.7 |
| 6 | 110 | 1.6 | 2.2 | 2.7 | 2.2 | 1.7 | 1.9 | 1.9 | 2.5 | 2.6 | 2.8 | 2.2 | 3.7 | 2.5 | 2.1 | 6.5 |
| 7 | 110 | 1.5 | 2.0 | 2.5 | 2.1 | 1.6 | 1.8 | 1.8 | 2.3 | 2.4 | 2.6 | 2.0 | 3.4 | 2.3 | 1.9 | 6.0 |
| 8 | 110 | 1.4 | 1.9 | 2.4 | 2.0 | 1.5 | 1.7 | 1.7 | 2.2 | 2.3 | 2.5 | 1.9 | 3.2 | 2.2 | 1.8 | 5.7 |
| 6 | 125 | 1.3 | 1.8 | 2.2 | 1.8 | 1.4 | 1.6 | 1.6 | 2.0 | 2.1 | 2.3 | 1.8 | 3.0 | 2.0 | 1.7 | 5.3 |
| 7 | 125 | 1.2 | 1.6 | 2.0 | 1.7 | 1.3 | 1.5 | 1.5 | 1.9 | 2.0 | 2.1 | 1.6 | 2.8 | 1.9 | 1.6 | 4.9 |
| 8 | 125 | 1.2 | 1.6 | 1.9 | 1.6 | 1.2 | 1.4 | 1.4 | 1.8 | 1.9 | 2.0 | 1.6 | 2.6 | 1.8 | 1.5 | 4.7 |

Thin Paint or Rusted Thin Paint

Soft Coating

Medium Profile Range

SSPC-SP 6

Tables 3232 CP

| Operating Conditions | | Consumption Rate lbs/ft² of Blasting | | | | | | | | | | | | | | |
|----------------------|----------------|--------------------------------------|--------|------|-----------------------------|------|--------|------|--------------------------------|------------|--------|--------|--------------|---------|-------|------|
| | | Typical Mineral Abrasive | | | Refinery & By-Product Grits | | | | Natural or Mined Grits & Sands | | | | Manufactured | | | |
| Nozzle Size | Pressure (psi) | -25% | Median | +25% | Copper | Coal | Nickel | Iron | Olivine | Staurolite | Garnet | Silica | Zircon | Alumina | Glass | |
| 6 | 90 | 4.5 | 5.9 | 7.4 | 6.1 | 4.8 | 5.3 | 5.3 | 6.8 | 7.1 | 7.7 | 5.9 | 10.1 | 6.8 | 5.6 | 17.8 |
| 7 | 90 | 4.1 | 5.4 | 6.8 | 5.6 | 4.4 | 4.9 | 4.9 | 6.3 | 6.5 | 7.1 | 5.4 | 9.3 | 6.3 | 5.2 | 16.3 |
| 8 | 90 | 3.9 | 5.2 | 6.6 | 5.4 | 4.2 | 4.7 | 4.7 | 6.0 | 6.3 | 6.8 | 5.2 | 8.9 | 6.0 | 5.0 | 15.7 |
| 6 | 100 | 3.8 | 5.1 | 6.4 | 5.3 | 4.1 | 4.6 | 4.6 | 5.9 | 6.1 | 6.7 | 5.1 | 8.7 | 5.9 | 4.9 | 15.4 |
| 7 | 100 | 3.5 | 4.7 | 5.9 | 4.8 | 3.7 | 4.2 | 4.2 | 5.4 | 5.6 | 6.1 | 4.7 | 8.0 | 5.4 | 4.5 | 14.1 |
| 8 | 100 | 3.4 | 4.5 | 5.6 | 4.6 | 3.6 | 4.0 | 4.0 | 5.2 | 5.4 | 5.8 | 4.5 | 7.6 | 5.2 | 4.3 | 13.5 |
| 6 | 110 | 3.2 | 4.3 | 5.4 | 4.4 | 3.5 | 3.9 | 3.9 | 5.0 | 5.2 | 5.6 | 4.3 | 7.3 | 5.0 | 4.1 | 13.0 |
| 7 | 110 | 3.0 | 4.0 | 5.0 | 4.1 | 3.2 | 3.6 | 3.6 | 4.6 | 4.8 | 5.2 | 4.0 | 6.8 | 4.6 | 3.8 | 12.0 |
| 8 | 110 | 2.9 | 3.8 | 4.8 | 3.9 | 3.1 | 3.4 | 3.4 | 4.4 | 4.6 | 5.0 | 3.8 | 6.5 | 4.4 | 3.6 | 11.5 |
| 6 | 125 | 2.7 | 3.5 | 4.4 | 3.6 | 2.8 | 3.2 | 3.2 | 4.1 | 4.2 | 4.6 | 3.5 | 6.0 | 4.1 | 3.4 | 10.6 |
| 7 | 125 | 2.5 | 3.3 | 4.1 | 3.4 | 2.6 | 2.9 | 2.9 | 3.8 | 3.9 | 4.2 | 3.3 | 5.6 | 3.8 | 3.1 | 9.8 |
| 8 | 125 | 2.3 | 3.1 | 3.9 | 3.2 | 2.5 | 2.8 | 2.8 | 3.6 | 3.7 | 4.1 | 3.1 | 5.3 | 3.6 | 3.0 | 9.3 |

Thin Paint or Rusted Thin Paint

Soft Coating

High Profile Range

SSPC-SP 6

Tables 3233 CP

| Operating Conditions | | Consumption Rate lbs/ft² of Blasting | | | | | | | | | | | | | | |
|----------------------|----------------|--------------------------------------|--------|------|-----------------------------|------|--------|------|--------------------------------|------------|--------|--------|--------------|---------|-------|-----|
| | | Typical Mineral Abrasive | | | Refinery & By-Product Grits | | | | Natural or Mined Grits & Sands | | | | Manufactured | | | |
| Nozzle Size | Pressure (psi) | -25% | Median | +25% | Copper | Coal | Nickel | Iron | Olivine | Staurolite | Garnet | Silica | Zircon | Alumina | Glass | |
| 6 | 90 | 1.0 | 1.3 | 1.7 | 1.4 | 1.1 | 1.2 | 1.2 | 1.5 | 1.6 | 1.7 | 1.3 | 2.3 | 1.5 | 1.3 | 4.0 |
| 7 | 90 | 0.9 | 1.2 | 1.5 | 1.3 | 1.0 | 1.1 | 1.1 | 1.4 | 1.5 | 1.6 | 1.2 | 2.1 | 1.4 | 1.2 | 3.7 |
| 8 | 90 | 0.9 | 1.2 | 1.5 | 1.2 | 0.9 | 1.1 | 1.1 | 1.4 | 1.4 | 1.5 | 1.2 | 2.0 | 1.4 | 1.1 | 3.5 |
| 6 | 100 | 0.9 | 1.2 | 1.4 | 1.2 | 0.9 | 1.0 | 1.0 | 1.3 | 1.4 | 1.5 | 1.2 | 2.0 | 1.3 | 1.1 | 3.5 |
| 7 | 100 | 0.8 | 1.1 | 1.3 | 1.1 | 0.8 | 1.0 | 1.0 | 1.2 | 1.3 | 1.4 | 1.1 | 1.8 | 1.2 | 1.0 | 3.2 |
| 8 | 100 | 0.8 | 1.0 | 1.3 | 1.0 | 0.8 | 0.9 | 0.9 | 1.2 | 1.2 | 1.3 | 1.0 | 1.7 | 1.2 | 1.0 | 3.0 |
| 6 | 110 | 0.7 | 1.0 | 1.2 | 1.0 | 0.8 | 0.9 | 0.9 | 1.1 | 1.2 | 1.3 | 1.0 | 1.7 | 1.1 | 0.9 | 2.9 |
| 7 | 110 | 0.7 | 0.9 | 1.1 | 0.9 | 0.7 | 0.8 | 0.8 | 1.0 | 1.1 | 1.2 | 0.9 | 1.5 | 1.0 | 0.9 | 2.7 |
| 8 | 110 | 0.6 | 0.9 | 1.1 | 0.9 | 0.7 | 0.8 | 0.8 | 1.0 | 1.0 | 1.1 | 0.9 | 1.5 | 1.0 | 0.8 | 2.6 |
| 6 | 125 | 0.6 | 0.8 | 1.0 | 0.8 | 0.6 | 0.7 | 0.7 | 0.9 | 1.0 | 1.0 | 0.8 | 1.4 | 0.9 | 0.8 | 2.4 |
| 7 | 125 | 0.6 | 0.7 | 0.9 | 0.8 | 0.6 | 0.7 | 0.7 | 0.8 | 0.9 | 1.0 | 0.7 | 1.2 | 0.8 | 0.7 | 2.2 |
| 8 | 125 | 0.5 | 0.7 | 0.9 | 0.7 | 0.6 | 0.6 | 0.6 | 0.8 | 0.8 | 0.9 | 0.7 | 1.2 | 0.8 | 0.7 | 2.1 |

Thin Paint or Rusted Thin Paint

Soft Coating

Low Profile Range

SSPC-SP 7

Tables

3241

CP

| Operating Conditions | | Consumption Rate lbs/ft² of Blasting | | | | | | | | | | | | | | |
|----------------------|----------------|--------------------------------------|--------|------|-----------------------------|------|--------|------|--------------------------------|------------|--------|--------|--------------|---------|-------|------|
| | | Typical Mineral Abrasive | | | Refinery & By-Product Grits | | | | Natural or Mined Grits & Sands | | | | Manufactured | | | |
| Nozzle Size | Pressure (psi) | -25% | Median | +25% | Copper | Coal | Nickel | Iron | Olivine | Staurolite | Garnet | Silica | Zircon | Alumina | Glass | Iron |
| 6 | 90 | 7.4 | 9.9 | 12.4 | 10.2 | 7.9 | 8.9 | 8.9 | 11.4 | 11.9 | 12.9 | 9.9 | 16.9 | 11.4 | 9.4 | 29.8 |
| 6 | 100 | 6.4 | 8.5 | 10.7 | 8.8 | 6.8 | 7.7 | 7.7 | 9.8 | 10.2 | 11.1 | 8.5 | 14.5 | 9.8 | 8.1 | 25.6 |
| 6 | 110 | 5.4 | 7.2 | 9.0 | 7.4 | 5.7 | 6.5 | 6.5 | 8.2 | 8.6 | 9.3 | 7.2 | 12.2 | 8.2 | 6.8 | 21.5 |
| 6 | 125 | 4.4 | 5.9 | 7.4 | 6.1 | 4.7 | 5.3 | 5.3 | 6.8 | 7.1 | 7.7 | 5.9 | 10.0 | 6.8 | 5.6 | 17.7 |
| 7 | 90 | 7.1 | 9.4 | 11.8 | 9.7 | 7.5 | 8.5 | 8.5 | 10.8 | 11.3 | 12.2 | 9.4 | 16.0 | 10.8 | 8.9 | 28.2 |
| 7 | 100 | 6.1 | 8.1 | 10.2 | 8.4 | 6.5 | 7.3 | 7.3 | 9.3 | 9.7 | 10.6 | 8.1 | 13.8 | 9.3 | 7.7 | 24.4 |
| 7 | 110 | 5.2 | 6.9 | 8.7 | 7.1 | 5.5 | 6.2 | 6.2 | 8.0 | 8.3 | 9.0 | 6.9 | 11.8 | 8.0 | 6.6 | 20.8 |
| 7 | 125 | 4.2 | 5.6 | 7.1 | 5.8 | 4.5 | 5.1 | 5.1 | 6.5 | 6.8 | 7.3 | 5.6 | 9.6 | 6.5 | 5.4 | 16.9 |
| 8 | 90 | 6.5 | 8.7 | 10.9 | 9.0 | 7.0 | 7.8 | 7.8 | 10.0 | 10.5 | 11.3 | 8.7 | 14.8 | 10.0 | 8.3 | 26.1 |
| 8 | 100 | 5.6 | 7.5 | 9.4 | 7.7 | 6.0 | 6.7 | 6.7 | 8.6 | 9.0 | 9.7 | 7.5 | 12.7 | 8.6 | 7.1 | 22.5 |
| 8 | 110 | 4.8 | 6.4 | 8.0 | 6.6 | 5.1 | 5.7 | 5.7 | 7.3 | 7.6 | 8.3 | 6.4 | 10.8 | 7.3 | 6.0 | 19.1 |
| 8 | 125 | 3.9 | 5.2 | 6.5 | 5.3 | 4.2 | 4.7 | 4.7 | 6.0 | 6.2 | 6.7 | 5.2 | 8.8 | 6.0 | 4.9 | 15.6 |

Thick Paint, Heavy Millscale or Heavy Pitted Rust

Hard Coating

Low Profile Range

SSPC-SP 5

Tables 4111 CP

| Operating Conditions | | Consumption Rate lbs/ft² of Blasting | | | | | | | | | | | | | | |
|----------------------|----------------|--------------------------------------|--------|------|-----------------------------|------|--------|------|--------------------------------|------------|--------|--------|--------------|---------|-------|------|
| | | Typical Mineral Abrasive | | | Refinery & By-Product Grits | | | | Natural or Mined Grits & Sands | | | | Manufactured | | | |
| Nozzle Size | Pressure (psi) | -25% | Median | +25% | Copper | Coal | Nickel | Iron | Olivine | Staurolite | Garnet | Silica | Zircon | Alumina | Glass | |
| 6 | 90 | 11.3 | 15.0 | 18.8 | 15.5 | 12.0 | 13.5 | 13.5 | 17.3 | 18.0 | 19.5 | 15.0 | 25.5 | 17.3 | 14.3 | 45.1 |
| 6 | 100 | 9.6 | 12.8 | 16.0 | 13.2 | 10.2 | 11.5 | 11.5 | 14.7 | 15.4 | 16.6 | 12.8 | 21.8 | 14.7 | 12.2 | 38.4 |
| 6 | 110 | 8.1 | 10.8 | 13.4 | 11.1 | 8.6 | 9.7 | 9.7 | 12.4 | 12.9 | 14.0 | 10.8 | 18.3 | 12.4 | 10.2 | 32.3 |
| 6 | 125 | 6.7 | 8.9 | 11.1 | 9.1 | 7.1 | 8.0 | 8.0 | 10.2 | 10.6 | 11.5 | 8.9 | 15.1 | 10.2 | 8.4 | 26.6 |
| 7 | 90 | 10.5 | 14.1 | 17.6 | 14.5 | 11.2 | 12.7 | 12.7 | 16.2 | 16.9 | 18.3 | 14.1 | 23.9 | 16.2 | 13.4 | 42.2 |
| 7 | 100 | 9.1 | 12.2 | 15.2 | 12.6 | 9.7 | 11.0 | 11.0 | 14.0 | 14.6 | 15.8 | 12.2 | 20.7 | 14.0 | 11.6 | 36.6 |
| 7 | 110 | 7.8 | 10.4 | 13.0 | 10.7 | 8.3 | 9.4 | 9.4 | 12.0 | 12.5 | 13.6 | 10.4 | 17.7 | 12.0 | 9.9 | 31.3 |
| 7 | 125 | 6.4 | 8.5 | 10.6 | 8.7 | 6.8 | 7.6 | 7.6 | 9.7 | 10.2 | 11.0 | 8.5 | 14.4 | 9.7 | 8.0 | 25.4 |
| 8 | 90 | 9.8 | 13.1 | 16.3 | 13.5 | 10.5 | 11.8 | 11.8 | 15.0 | 15.7 | 17.0 | 13.1 | 22.2 | 15.0 | 12.4 | 39.2 |
| 8 | 100 | 8.4 | 11.2 | 14.1 | 11.6 | 9.0 | 10.1 | 10.1 | 12.9 | 13.5 | 14.6 | 11.2 | 19.1 | 12.9 | 10.7 | 33.7 |
| 8 | 110 | 7.2 | 9.6 | 12.0 | 9.9 | 7.7 | 8.6 | 8.6 | 11.0 | 11.5 | 12.4 | 9.6 | 16.3 | 11.0 | 9.1 | 28.7 |
| 8 | 125 | 5.8 | 7.8 | 9.7 | 8.0 | 6.2 | 7.0 | 7.0 | 8.9 | 9.3 | 10.1 | 7.8 | 13.2 | 8.9 | 7.4 | 23.3 |

Thick Paint, Heavy Millscale or Heavy Pitted Rust

Hard Coating

Medium Profile Range

SSPC-SP 5

Tables 4112 CP

| Operating Conditions | | Consumption Rate lbs/ft² of Blasting | | | | | | | | | | | | | | |
|----------------------|----------------|--------------------------------------|--------|------|-----------------------------|------|--------|------|--------------------------------|------------|--------|--------|--------------|---------|-------|------|
| | | Typical Mineral Abrasive | | | Refinery & By-Product Grits | | | | Natural or Mined Grits & Sands | | | | Manufactured | | | |
| Nozzle Size | Pressure (psi) | -25% | Median | +25% | Copper | Coal | Nickel | Iron | Olivine | Staurolite | Garnet | Silica | Zircon | Alumina | Glass | |
| 6 | 90 | 22.5 | 30.1 | 37.6 | 31.0 | 24.0 | 27.1 | 27.1 | 34.6 | 36.1 | 39.1 | 30.1 | 51.1 | 34.6 | 28.6 | 90.2 |
| 6 | 100 | 19.2 | 25.6 | 32.0 | 26.4 | 20.5 | 23.0 | 23.0 | 29.4 | 30.7 | 33.3 | 25.6 | 43.5 | 29.4 | 24.3 | 76.8 |
| 6 | 110 | 16.1 | 21.5 | 26.9 | 22.2 | 17.2 | 19.4 | 19.4 | 24.7 | 25.8 | 28.0 | 21.5 | 36.6 | 24.7 | 20.4 | 64.5 |
| 6 | 125 | 13.2 | 17.6 | 22.0 | 18.2 | 14.1 | 15.9 | 15.9 | 20.3 | 21.2 | 22.9 | 17.6 | 30.0 | 20.3 | 16.8 | 52.9 |
| 7 | 90 | 21.3 | 28.4 | 35.5 | 29.2 | 22.7 | 25.6 | 25.6 | 32.7 | 34.1 | 36.9 | 28.4 | 48.3 | 32.7 | 27.0 | 85.2 |
| 7 | 100 | 18.3 | 24.4 | 30.5 | 25.1 | 19.5 | 21.9 | 21.9 | 28.0 | 29.2 | 31.7 | 24.4 | 41.4 | 28.0 | 23.2 | 73.1 |
| 7 | 110 | 15.5 | 20.7 | 25.9 | 21.3 | 16.6 | 18.6 | 18.6 | 23.8 | 24.9 | 26.9 | 20.7 | 35.2 | 23.8 | 19.7 | 62.2 |
| 7 | 125 | 12.7 | 16.9 | 21.2 | 17.4 | 13.6 | 15.2 | 15.2 | 19.5 | 20.3 | 22.0 | 16.9 | 28.8 | 19.5 | 16.1 | 50.8 |
| 8 | 90 | 19.6 | 26.1 | 32.7 | 26.9 | 20.9 | 23.5 | 23.5 | 30.1 | 31.4 | 34.0 | 26.1 | 44.4 | 30.1 | 24.8 | 78.4 |
| 8 | 100 | 16.9 | 22.5 | 28.1 | 23.2 | 18.0 | 20.2 | 20.2 | 25.9 | 27.0 | 29.2 | 22.5 | 38.2 | 25.9 | 21.4 | 67.5 |
| 8 | 110 | 14.4 | 19.2 | 23.9 | 19.7 | 15.3 | 17.2 | 17.2 | 22.0 | 23.0 | 24.9 | 19.2 | 32.6 | 22.0 | 18.2 | 57.5 |
| 8 | 125 | 11.7 | 15.6 | 19.5 | 16.0 | 12.5 | 14.0 | 14.0 | 17.9 | 18.7 | 20.2 | 15.6 | 26.5 | 17.9 | 14.8 | 46.7 |

Thick Paint, Heavy Millscale or Heavy Pitted Rust

Hard Coating

High Profile Range

SSPC-SP 5

Tables 4113 CP

| Operating Conditions | | Consumption Rate lbs/ft² of Blasting | | | | | | | | | | | | | | |
|----------------------|----------------|--------------------------------------|--------|------|-----------------------------|------|--------|------|--------------------------------|------------|--------|--------|--------------|---------|-------|------|
| | | Typical Mineral Abrasive | | | Refinery & By-Product Grits | | | | Natural or Mined Grits & Sands | | | | Manufactured | | | |
| Nozzle Size | Pressure (psi) | -25% | Median | +25% | Copper | Coal | Nickel | Iron | Olivine | Staurolite | Garnet | Silica | Zircon | Alumina | Glass | Iron |
| 6 | 90 | 6.7 | 9.0 | 11.2 | 9.3 | 7.2 | 8.1 | 8.1 | 10.3 | 10.8 | 11.7 | 9.0 | 15.3 | 10.3 | 8.5 | 27.0 |
| 6 | 100 | 5.8 | 7.7 | 9.6 | 7.9 | 6.1 | 6.9 | 6.9 | 8.8 | 9.2 | 10.0 | 7.7 | 13.1 | 8.8 | 7.3 | 23.0 |
| 6 | 110 | 4.8 | 6.5 | 8.1 | 6.6 | 5.2 | 5.8 | 5.8 | 7.4 | 7.7 | 8.4 | 6.5 | 11.0 | 7.4 | 6.1 | 19.4 |
| 6 | 125 | 4.0 | 5.3 | 6.6 | 5.5 | 4.2 | 4.8 | 4.8 | 6.1 | 6.4 | 6.9 | 5.3 | 9.0 | 6.1 | 5.0 | 15.9 |
| 7 | 90 | 6.5 | 8.7 | 10.9 | 9.0 | 7.0 | 7.9 | 7.9 | 10.0 | 10.5 | 11.3 | 8.7 | 14.8 | 10.0 | 8.3 | 26.2 |
| 7 | 100 | 5.7 | 7.5 | 9.4 | 7.8 | 6.0 | 6.8 | 6.8 | 8.7 | 9.1 | 9.8 | 7.5 | 12.8 | 8.7 | 7.2 | 22.6 |
| 7 | 110 | 4.8 | 6.4 | 8.0 | 6.6 | 5.1 | 5.8 | 5.8 | 7.4 | 7.7 | 8.4 | 6.4 | 10.9 | 7.4 | 6.1 | 19.3 |
| 7 | 125 | 3.9 | 5.3 | 6.6 | 5.4 | 4.2 | 4.7 | 4.7 | 6.1 | 6.3 | 6.8 | 5.3 | 8.9 | 6.1 | 5.0 | 15.8 |
| 8 | 90 | 5.9 | 7.9 | 9.8 | 8.1 | 6.3 | 7.1 | 7.1 | 9.0 | 9.4 | 10.2 | 7.9 | 13.4 | 9.0 | 7.5 | 23.6 |
| 8 | 100 | 5.1 | 6.7 | 8.4 | 6.9 | 5.4 | 6.1 | 6.1 | 7.8 | 8.1 | 8.8 | 6.7 | 11.5 | 7.8 | 6.4 | 20.2 |
| 8 | 110 | 4.3 | 5.7 | 7.2 | 5.9 | 4.6 | 5.2 | 5.2 | 6.6 | 6.9 | 7.5 | 5.7 | 9.8 | 6.6 | 5.5 | 17.2 |
| 8 | 125 | 3.5 | 4.7 | 5.8 | 4.8 | 3.7 | 4.2 | 4.2 | 5.4 | 5.6 | 6.1 | 4.7 | 7.9 | 5.4 | 4.4 | 14.0 |

Thick Paint, Heavy Millscale or Heavy Pitted Rust

Hard Coating

Low Profile Range

SSPC-SP 10

Tables 4121 CP

| Operating Conditions | | Consumption Rate lbs/ft² of Blasting | | | | | | | | | | | | | | |
|----------------------|----------------|--------------------------------------|--------|------|-----------------------------|------|--------|------|--------------------------------|------------|--------|--------|--------------|---------|-------|------|
| | | Typical Mineral Abrasive | | | Refinery & By-Product Grits | | | | Natural or Mined Grits & Sands | | | | Manufactured | | | |
| Nozzle Size | Pressure (psi) | -25% | Median | +25% | Copper | Coal | Nickel | Iron | Olivine | Staurolite | Garnet | Silica | Zircon | Alumina | Glass | |
| 6 | 90 | 10.1 | 13.5 | 16.9 | 13.9 | 10.8 | 12.1 | 12.1 | 15.5 | 16.2 | 17.5 | 13.5 | 22.9 | 15.5 | 12.8 | 40.5 |
| 6 | 100 | 8.6 | 11.5 | 14.4 | 11.9 | 9.2 | 10.4 | 10.4 | 13.2 | 13.8 | 15.0 | 11.5 | 19.6 | 13.2 | 10.9 | 34.6 |
| 6 | 110 | 7.3 | 9.7 | 12.2 | 10.0 | 7.8 | 8.8 | 8.8 | 11.2 | 11.7 | 12.6 | 9.7 | 16.5 | 11.2 | 9.2 | 29.2 |
| 6 | 125 | 5.9 | 7.9 | 9.9 | 8.2 | 6.3 | 7.1 | 7.1 | 9.1 | 9.5 | 10.3 | 7.9 | 13.5 | 9.1 | 7.5 | 23.7 |
| 7 | 90 | 9.8 | 13.0 | 16.3 | 13.4 | 10.4 | 11.7 | 11.7 | 15.0 | 15.7 | 17.0 | 13.0 | 22.2 | 15.0 | 12.4 | 39.1 |
| 7 | 100 | 8.5 | 11.3 | 14.1 | 11.7 | 9.1 | 10.2 | 10.2 | 13.0 | 13.6 | 14.7 | 11.3 | 19.2 | 13.0 | 10.7 | 33.9 |
| 7 | 110 | 7.2 | 9.7 | 12.1 | 9.9 | 7.7 | 8.7 | 8.7 | 11.1 | 11.6 | 12.5 | 9.7 | 16.4 | 11.1 | 9.2 | 29.0 |
| 7 | 125 | 5.9 | 7.9 | 9.9 | 8.1 | 6.3 | 7.1 | 7.1 | 9.1 | 9.5 | 10.2 | 7.9 | 13.4 | 9.1 | 7.5 | 23.6 |
| 8 | 90 | 8.8 | 11.7 | 14.7 | 12.1 | 9.4 | 10.6 | 10.6 | 13.5 | 14.1 | 15.3 | 11.7 | 20.0 | 13.5 | 11.2 | 35.2 |
| 8 | 100 | 7.6 | 10.1 | 12.7 | 10.4 | 8.1 | 9.1 | 9.1 | 11.6 | 12.1 | 13.2 | 10.1 | 17.2 | 11.6 | 9.6 | 30.4 |
| 8 | 110 | 6.4 | 8.6 | 10.7 | 8.8 | 6.9 | 7.7 | 7.7 | 9.9 | 10.3 | 11.2 | 8.6 | 14.6 | 9.9 | 8.2 | 25.8 |
| 8 | 125 | 5.3 | 7.0 | 8.8 | 7.2 | 5.6 | 6.3 | 6.3 | 8.1 | 8.4 | 9.1 | 7.0 | 11.9 | 8.1 | 6.7 | 21.0 |

Thick Paint, Heavy Millscale or Heavy Pitted Rust

Hard Coating

Medium Profile Range

SSPC-SP 10

Tables 4122

CP

| Operating Conditions | | Consumption Rate lbs/ft² of Blasting | | | | | | | | | | | | | | |
|----------------------|----------------|--------------------------------------|--------|------|-----------------------------|------|--------|------|--------------------------------|------------|--------|--------|--------------|---------|-------|------|
| | | Typical Mineral Abrasive | | | Refinery & By-Product Grits | | | | Natural or Mined Grits & Sands | | | | Manufactured | | | |
| Nozzle Size | Pressure (psi) | -25% | Median | +25% | Copper | Coal | Nickel | Iron | Olivine | Staurolite | Garnet | Silica | Zircon | Alumina | Glass | |
| 6 | 90 | 20.2 | 27.0 | 33.7 | 27.8 | 21.6 | 24.3 | 24.3 | 31.0 | 32.4 | 35.1 | 27.0 | 45.9 | 31.0 | 25.6 | 80.9 |
| 6 | 100 | 17.3 | 23.0 | 28.8 | 23.7 | 18.4 | 20.7 | 20.7 | 26.5 | 27.6 | 30.0 | 23.0 | 39.2 | 26.5 | 21.9 | 69.1 |
| 6 | 110 | 14.6 | 19.5 | 24.3 | 20.0 | 15.6 | 17.5 | 17.5 | 22.4 | 23.4 | 25.3 | 19.5 | 33.1 | 22.4 | 18.5 | 58.4 |
| 6 | 125 | 11.9 | 15.8 | 19.8 | 16.3 | 12.7 | 14.2 | 14.2 | 18.2 | 19.0 | 20.6 | 15.8 | 26.9 | 18.2 | 15.0 | 47.5 |
| 7 | 90 | 19.7 | 26.3 | 32.9 | 27.1 | 21.1 | 23.7 | 23.7 | 30.3 | 31.6 | 34.2 | 26.3 | 44.8 | 30.3 | 25.0 | 79.0 |
| 7 | 100 | 17.0 | 22.6 | 28.3 | 23.3 | 18.1 | 20.4 | 20.4 | 26.0 | 27.2 | 29.4 | 22.6 | 38.5 | 26.0 | 21.5 | 67.9 |
| 7 | 110 | 14.5 | 19.3 | 24.1 | 19.9 | 15.4 | 17.4 | 17.4 | 22.2 | 23.2 | 25.1 | 19.3 | 32.8 | 22.2 | 18.3 | 57.9 |
| 7 | 125 | 11.9 | 15.8 | 19.8 | 16.3 | 12.7 | 14.2 | 14.2 | 18.2 | 19.0 | 20.6 | 15.8 | 26.9 | 18.2 | 15.0 | 47.5 |
| 8 | 90 | 17.6 | 23.5 | 29.4 | 24.2 | 18.8 | 21.1 | 21.1 | 27.0 | 28.2 | 30.5 | 23.5 | 39.9 | 27.0 | 22.3 | 70.5 |
| 8 | 100 | 15.2 | 20.2 | 25.3 | 20.8 | 16.2 | 18.2 | 18.2 | 23.3 | 24.3 | 26.3 | 20.2 | 34.4 | 23.3 | 19.2 | 60.7 |
| 8 | 110 | 12.9 | 17.2 | 21.5 | 17.7 | 13.7 | 15.5 | 15.5 | 19.8 | 20.6 | 22.3 | 17.2 | 29.2 | 19.8 | 16.3 | 51.5 |
| 8 | 125 | 10.5 | 14.0 | 17.5 | 14.4 | 11.2 | 12.6 | 12.6 | 16.1 | 16.8 | 18.2 | 14.0 | 23.8 | 16.1 | 13.3 | 41.9 |

Thick Paint, Heavy Millscale or Heavy Pitted Rust

Hard Coating

High Profile Range

SSPC-SP 10

Tables 4123

CP

| Operating Conditions | | Consumption Rate lbs/ft² of Blasting | | | | | | | | | | | | | | |
|----------------------|----------------|--------------------------------------|--------|------|-----------------------------|------|--------|------|--------------------------------|------------|--------|--------|--------------|---------|-------|------|
| | | Typical Mineral Abrasive | | | Refinery & By-Product Grits | | | | Natural or Mined Grits & Sands | | | | Manufactured | | | |
| Nozzle Size | Pressure (psi) | -25% | Median | +25% | Copper | Coal | Nickel | Iron | Olivine | Staurolite | Garnet | Silica | Zircon | Alumina | Glass | Iron |
| 6 | 90 | 3.3 | 4.5 | 5.6 | 4.6 | 3.6 | 4.0 | 4.0 | 5.1 | 5.3 | 5.8 | 4.5 | 7.6 | 5.1 | 4.2 | 13.4 |
| 6 | 100 | 2.9 | 3.8 | 4.8 | 4.0 | 3.1 | 3.5 | 3.5 | 4.4 | 4.6 | 5.0 | 3.8 | 6.5 | 4.4 | 3.6 | 11.5 |
| 6 | 110 | 2.4 | 3.3 | 4.1 | 3.3 | 2.6 | 2.9 | 2.9 | 3.7 | 3.9 | 4.2 | 3.3 | 5.5 | 3.7 | 3.1 | 9.8 |
| 6 | 125 | 2.0 | 2.6 | 3.3 | 2.7 | 2.1 | 2.4 | 2.4 | 3.0 | 3.2 | 3.4 | 2.6 | 4.5 | 3.0 | 2.5 | 7.9 |
| 7 | 90 | 3.1 | 4.1 | 5.1 | 4.2 | 3.3 | 3.7 | 3.7 | 4.7 | 4.9 | 5.3 | 4.1 | 7.0 | 4.7 | 3.9 | 12.3 |
| 7 | 100 | 2.6 | 3.5 | 4.4 | 3.6 | 2.8 | 3.2 | 3.2 | 4.0 | 4.2 | 4.6 | 3.5 | 6.0 | 4.0 | 3.3 | 10.6 |
| 7 | 110 | 2.2 | 3.0 | 3.7 | 3.1 | 2.4 | 2.7 | 2.7 | 3.4 | 3.6 | 3.9 | 3.0 | 5.1 | 3.4 | 2.8 | 9.0 |
| 7 | 125 | 1.8 | 2.5 | 3.1 | 2.5 | 2.0 | 2.2 | 2.2 | 2.8 | 2.9 | 3.2 | 2.5 | 4.2 | 2.8 | 2.3 | 7.4 |
| 8 | 90 | 2.9 | 3.9 | 4.9 | 4.0 | 3.1 | 3.5 | 3.5 | 4.5 | 4.7 | 5.1 | 3.9 | 6.7 | 4.5 | 3.7 | 11.8 |
| 8 | 100 | 2.5 | 3.4 | 4.2 | 3.5 | 2.7 | 3.0 | 3.0 | 3.9 | 4.0 | 4.4 | 3.4 | 5.7 | 3.9 | 3.2 | 10.1 |
| 8 | 110 | 2.1 | 2.9 | 3.6 | 3.0 | 2.3 | 2.6 | 2.6 | 3.3 | 3.4 | 3.7 | 2.9 | 4.9 | 3.3 | 2.7 | 8.6 |
| 8 | 125 | 1.8 | 2.3 | 2.9 | 2.4 | 1.9 | 2.1 | 2.1 | 2.7 | 2.8 | 3.0 | 2.3 | 4.0 | 2.7 | 2.2 | 7.0 |

Thick Paint, Heavy Millscale or Heavy Pitted Rust

Hard Coating

Low Profile Range

SSPC-SP 6

Tables 4131 CP

| Operating Conditions | | Consumption Rate lbs/ft² of Blasting | | | | | | | | | | | | | | |
|----------------------|----------------|--------------------------------------|--------|------|-----------------------------|------|--------|------|--------------------------------|------------|--------|--------|--------------|---------|-------|------|
| | | Typical Mineral Abrasive | | | Refinery & By-Product Grits | | | | Natural or Mined Grits & Sands | | | | Manufactured | | | |
| Nozzle Size | Pressure (psi) | -25% | Median | +25% | Copper | Coal | Nickel | Iron | Olivine | Staurolite | Garnet | Silica | Zircon | Alumina | Glass | |
| 6 | 90 | 5.0 | 6.7 | 8.3 | 6.9 | 5.3 | 6.0 | 6.0 | 7.7 | 8.0 | 8.7 | 6.7 | 11.3 | 7.7 | 6.3 | 20.0 |
| 6 | 100 | 4.3 | 5.8 | 7.2 | 5.9 | 4.6 | 5.2 | 5.2 | 6.6 | 6.9 | 7.5 | 5.8 | 9.8 | 6.6 | 5.5 | 17.3 |
| 6 | 110 | 3.6 | 4.9 | 6.1 | 5.0 | 3.9 | 4.4 | 4.4 | 5.6 | 5.8 | 6.3 | 4.9 | 8.3 | 5.6 | 4.6 | 14.6 |
| 6 | 125 | 3.0 | 4.0 | 5.0 | 4.1 | 3.2 | 3.6 | 3.6 | 4.6 | 4.8 | 5.2 | 4.0 | 6.7 | 4.6 | 3.8 | 11.9 |
| 7 | 90 | 4.6 | 6.1 | 7.7 | 6.3 | 4.9 | 5.5 | 5.5 | 7.1 | 7.4 | 8.0 | 6.1 | 10.4 | 7.1 | 5.8 | 18.4 |
| 7 | 100 | 4.0 | 5.3 | 6.6 | 5.4 | 4.2 | 4.8 | 4.8 | 6.1 | 6.3 | 6.9 | 5.3 | 9.0 | 6.1 | 5.0 | 15.8 |
| 7 | 110 | 3.4 | 4.5 | 5.6 | 4.6 | 3.6 | 4.0 | 4.0 | 5.2 | 5.4 | 5.8 | 4.5 | 7.6 | 5.2 | 4.3 | 13.5 |
| 7 | 125 | 2.8 | 3.7 | 4.6 | 3.8 | 2.9 | 3.3 | 3.3 | 4.2 | 4.4 | 4.8 | 3.7 | 6.3 | 4.2 | 3.5 | 11.0 |
| 8 | 90 | 4.4 | 5.9 | 7.4 | 6.1 | 4.7 | 5.3 | 5.3 | 6.8 | 7.1 | 7.7 | 5.9 | 10.0 | 6.8 | 5.6 | 17.7 |
| 8 | 100 | 3.8 | 5.1 | 6.3 | 5.2 | 4.0 | 4.6 | 4.6 | 5.8 | 6.1 | 6.6 | 5.1 | 8.6 | 5.8 | 4.8 | 15.2 |
| 8 | 110 | 3.2 | 4.3 | 5.4 | 4.4 | 3.4 | 3.9 | 3.9 | 4.9 | 5.2 | 5.6 | 4.3 | 7.3 | 4.9 | 4.1 | 12.9 |
| 8 | 125 | 2.6 | 3.5 | 4.4 | 3.6 | 2.8 | 3.2 | 3.2 | 4.0 | 4.2 | 4.6 | 3.5 | 6.0 | 4.0 | 3.3 | 10.5 |

Thick Paint, Heavy Millscale or Heavy Pitted Rust

Hard Coating

Medium Profile Range

SSPC-SP 6

Tables 4132 CP

| Operating Conditions | | Consumption Rate lbs/ft² of Blasting | | | | | | | | | | | | | | |
|----------------------|----------------|--------------------------------------|--------|------|-----------------------------|------|--------|------|--------------------------------|------------|--------|--------|--------------|---------|-------|------------|
| | | Typical Mineral Abrasive | | | Refinery & By-Product Grits | | | | Natural or Mined Grits & Sands | | | | Manufactured | | | |
| Nozzle Size | Pressure (psi) | -25% | Median | +25% | Copper | Coal | Nickel | Iron | Olivine | Staurolite | Garnet | Silica | Zircon | Alumina | Glass | Steel Iron |
| 6 | 90 | 10.0 | 13.3 | 16.6 | 13.7 | 10.7 | 12.0 | 12.0 | 15.3 | 16.0 | 17.3 | 13.3 | 22.6 | 15.3 | 12.7 | 39.9 |
| 6 | 100 | 8.6 | 11.5 | 14.4 | 11.9 | 9.2 | 10.4 | 10.4 | 13.2 | 13.8 | 15.0 | 11.5 | 19.6 | 13.2 | 10.9 | 34.6 |
| 6 | 110 | 7.3 | 9.7 | 12.2 | 10.0 | 7.8 | 8.8 | 8.8 | 11.2 | 11.7 | 12.6 | 9.7 | 16.5 | 11.2 | 9.2 | 29.2 |
| 6 | 125 | 5.9 | 7.9 | 9.9 | 8.2 | 6.3 | 7.1 | 7.1 | 9.1 | 9.5 | 10.3 | 7.9 | 13.5 | 9.1 | 7.5 | 23.7 |
| 7 | 90 | 9.2 | 12.3 | 15.3 | 12.6 | 9.8 | 11.0 | 11.0 | 14.1 | 14.7 | 16.0 | 12.3 | 20.9 | 14.1 | 11.7 | 36.8 |
| 7 | 100 | 7.9 | 10.6 | 13.2 | 10.9 | 8.4 | 9.5 | 9.5 | 12.1 | 12.7 | 13.7 | 10.6 | 18.0 | 12.1 | 10.0 | 31.7 |
| 7 | 110 | 6.7 | 9.0 | 11.2 | 9.3 | 7.2 | 8.1 | 8.1 | 10.3 | 10.8 | 11.7 | 9.0 | 15.3 | 10.3 | 8.5 | 27.0 |
| 7 | 125 | 5.5 | 7.3 | 9.2 | 7.6 | 5.9 | 6.6 | 6.6 | 8.4 | 8.8 | 9.5 | 7.3 | 12.5 | 8.4 | 7.0 | 22.0 |
| 8 | 90 | 8.8 | 11.7 | 14.7 | 12.1 | 9.4 | 10.6 | 10.6 | 13.5 | 14.1 | 15.3 | 11.7 | 20.0 | 13.5 | 11.2 | 35.2 |
| 8 | 100 | 7.6 | 10.1 | 12.7 | 10.4 | 8.1 | 9.1 | 9.1 | 11.6 | 12.1 | 13.2 | 10.1 | 17.2 | 11.6 | 9.6 | 30.4 |
| 8 | 110 | 6.4 | 8.6 | 10.7 | 8.8 | 6.9 | 7.7 | 7.7 | 9.9 | 10.3 | 11.2 | 8.6 | 14.6 | 9.9 | 8.2 | 25.8 |
| 8 | 125 | 5.3 | 7.0 | 8.8 | 7.2 | 5.6 | 6.3 | 6.3 | 8.1 | 8.4 | 9.1 | 7.0 | 11.9 | 8.1 | 6.7 | 21.1 |

Thick Paint, Heavy Millscale or Heavy Pitted Rust

Hard Coating

High Profile Range

SSPC-SP 6

Tables 4133 CP

| Operating Conditions | | Consumption Rate lbs/ft² of Blasting | | | | | | | | | | | | | | |
|----------------------|----------------|--------------------------------------|--------|------|-----------------------------|------|--------|------|--------------------------------|------------|--------|--------|--------------|---------|-------|------|
| | | Typical Mineral Abrasive | | | Refinery & By-Product Grits | | | | Natural or Mined Grits & Sands | | | | Manufactured | | | |
| Nozzle Size | Pressure (psi) | -25% | Median | +25% | Copper | Coal | Nickel | Iron | Olivine | Staurolite | Garnet | Silica | Zircon | Alumina | Glass | Iron |
| 6 | 90 | 1.0 | 1.3 | 1.7 | 1.4 | 1.1 | 1.2 | 1.2 | 1.5 | 1.6 | 1.7 | 1.3 | 2.3 | 1.5 | 1.3 | 4.0 |
| 7 | 90 | 0.9 | 1.2 | 1.5 | 1.3 | 1.0 | 1.1 | 1.1 | 1.4 | 1.5 | 1.6 | 1.2 | 2.1 | 1.4 | 1.2 | 3.7 |
| 8 | 90 | 0.9 | 1.2 | 1.5 | 1.2 | 0.9 | 1.1 | 1.1 | 1.4 | 1.4 | 1.5 | 1.2 | 2.0 | 1.4 | 1.1 | 3.5 |
| 6 | 100 | 0.9 | 1.2 | 1.4 | 1.2 | 0.9 | 1.0 | 1.0 | 1.3 | 1.4 | 1.5 | 1.2 | 2.0 | 1.3 | 1.1 | 3.5 |
| 7 | 100 | 0.8 | 1.1 | 1.3 | 1.1 | 0.8 | 1.0 | 1.0 | 1.2 | 1.3 | 1.4 | 1.1 | 1.8 | 1.2 | 1.0 | 3.2 |
| 8 | 100 | 0.8 | 1.0 | 1.3 | 1.0 | 0.8 | 0.9 | 0.9 | 1.2 | 1.2 | 1.3 | 1.0 | 1.7 | 1.2 | 1.0 | 3.0 |
| 6 | 110 | 0.7 | 1.0 | 1.2 | 1.0 | 0.8 | 0.9 | 0.9 | 1.1 | 1.2 | 1.3 | 1.0 | 1.7 | 1.1 | 0.9 | 2.9 |
| 7 | 110 | 0.7 | 0.9 | 1.1 | 0.9 | 0.7 | 0.8 | 0.8 | 1.0 | 1.1 | 1.2 | 0.9 | 1.5 | 1.0 | 0.9 | 2.7 |
| 8 | 110 | 0.6 | 0.9 | 1.1 | 0.9 | 0.7 | 0.8 | 0.8 | 1.0 | 1.0 | 1.1 | 0.9 | 1.5 | 1.0 | 0.8 | 2.6 |
| 6 | 125 | 0.6 | 0.8 | 1.0 | 0.8 | 0.6 | 0.7 | 0.7 | 0.9 | 1.0 | 1.0 | 0.8 | 1.4 | 0.9 | 0.8 | 2.4 |
| 7 | 125 | 0.6 | 0.7 | 0.9 | 0.8 | 0.6 | 0.7 | 0.7 | 0.8 | 0.9 | 1.0 | 0.7 | 1.2 | 0.8 | 0.7 | 2.2 |
| 8 | 125 | 0.5 | 0.7 | 0.9 | 0.7 | 0.6 | 0.6 | 0.6 | 0.8 | 0.8 | 0.9 | 0.7 | 1.2 | 0.8 | 0.7 | 2.1 |

Thick Paint, Heavy Millscale or Heavy Pitted Rust

Hard Coating

Low Profile Range

SSPC-SP 7

Tables 4141

CP

| Operating Conditions | | Consumption Rate lbs/ft² of Blasting | | | | | | | | | | | | | | |
|----------------------|----------------|--------------------------------------|--------|------|-----------------------------|------|--------|------|--------------------------------|------------|--------|--------|--------------|---------|-------|------|
| | | Typical Mineral Abrasive | | | Refinery & By-Product Grits | | | | Natural or Mined Grits & Sands | | | | Manufactured | | | |
| Nozzle Size | Pressure (psi) | -25% | Median | +25% | Copper | Coal | Nickel | Iron | Olivine | Staurolite | Garnet | Silica | Zircon | Alumina | Glass | |
| 6 | 90 | 5.0 | 6.6 | 8.3 | 6.8 | 5.3 | 6.0 | 6.0 | 7.6 | 7.9 | 8.6 | 6.6 | 11.2 | 7.6 | 6.3 | 19.8 |
| 6 | 100 | 4.3 | 5.7 | 7.1 | 5.8 | 4.5 | 5.1 | 5.1 | 6.5 | 6.8 | 7.4 | 5.7 | 9.6 | 6.5 | 5.4 | 17.0 |
| 6 | 110 | 3.6 | 4.8 | 6.0 | 4.9 | 3.8 | 4.3 | 4.3 | 5.5 | 5.7 | 6.2 | 4.8 | 8.1 | 5.5 | 4.5 | 14.4 |
| 6 | 125 | 3.0 | 3.9 | 4.9 | 4.1 | 3.1 | 3.5 | 3.5 | 4.5 | 4.7 | 5.1 | 3.9 | 6.7 | 4.5 | 3.7 | 11.8 |
| 7 | 90 | 4.7 | 6.3 | 7.8 | 6.5 | 5.0 | 5.6 | 5.6 | 7.2 | 7.5 | 8.1 | 6.3 | 10.7 | 7.2 | 6.0 | 18.8 |
| 7 | 100 | 4.1 | 5.4 | 6.8 | 5.6 | 4.3 | 4.9 | 4.9 | 6.2 | 6.5 | 7.0 | 5.4 | 9.2 | 6.2 | 5.1 | 16.2 |
| 7 | 110 | 3.5 | 4.6 | 5.8 | 4.8 | 3.7 | 4.2 | 4.2 | 5.3 | 5.6 | 6.0 | 4.6 | 7.9 | 5.3 | 4.4 | 13.9 |
| 7 | 125 | 2.8 | 3.8 | 4.7 | 3.9 | 3.0 | 3.4 | 3.4 | 4.3 | 4.5 | 4.9 | 3.8 | 6.4 | 4.3 | 3.6 | 11.3 |
| 8 | 90 | 4.4 | 5.8 | 7.3 | 6.0 | 4.7 | 5.2 | 5.2 | 6.7 | 7.0 | 7.6 | 5.8 | 9.9 | 6.7 | 5.5 | 17.5 |
| 8 | 100 | 3.7 | 5.0 | 6.2 | 5.1 | 4.0 | 4.5 | 4.5 | 5.7 | 6.0 | 6.5 | 5.0 | 8.5 | 5.7 | 4.7 | 15.0 |
| 8 | 110 | 3.2 | 4.3 | 5.3 | 4.4 | 3.4 | 3.8 | 3.8 | 4.9 | 5.1 | 5.5 | 4.3 | 7.2 | 4.9 | 4.0 | 12.8 |
| 8 | 125 | 2.6 | 3.5 | 4.3 | 3.6 | 2.8 | 3.1 | 3.1 | 4.0 | 4.2 | 4.5 | 3.5 | 5.9 | 4.0 | 3.3 | 10.4 |

Thick Paint, Heavy Millscale or Heavy Pitted Rust

Soft Coating

Low Profile Range

SSPC-SP 5

Tables 4211 CP

| Operating Conditions | | Consumption Rate lbs/ft² of Blasting | | | | | | | | | | | | | | |
|----------------------|----------------|--------------------------------------|--------|------|-----------------------------|------|--------|------|--------------------------------|------------|--------|--------|--------------|---------|-------|------|
| | | Typical Mineral Abrasive | | | Refinery & By-Product Grits | | | | Natural or Mined Grits & Sands | | | | Manufactured | | | |
| Nozzle Size | Pressure (psi) | -25% | Median | +25% | Copper | Coal | Nickel | Iron | Olivine | Staurolite | Garnet | Silica | Zircon | Alumina | Glass | |
| 6 | 90 | 7.4 | 9.9 | 12.4 | 10.2 | 7.9 | 8.9 | 8.9 | 11.4 | 11.9 | 12.9 | 9.9 | 16.9 | 11.4 | 9.4 | 29.8 |
| 6 | 100 | 6.4 | 8.5 | 10.7 | 8.8 | 6.8 | 7.7 | 7.7 | 9.8 | 10.2 | 11.1 | 8.5 | 14.5 | 9.8 | 8.1 | 25.6 |
| 6 | 110 | 5.4 | 7.2 | 9.0 | 7.4 | 5.7 | 6.5 | 6.5 | 8.2 | 8.6 | 9.3 | 7.2 | 12.2 | 8.2 | 6.8 | 21.5 |
| 6 | 125 | 4.4 | 5.9 | 7.4 | 6.1 | 4.7 | 5.3 | 5.3 | 6.8 | 7.1 | 7.7 | 5.9 | 10.0 | 6.8 | 5.6 | 17.7 |
| 7 | 90 | 7.1 | 9.4 | 11.8 | 9.7 | 7.5 | 8.5 | 8.5 | 10.8 | 11.3 | 12.2 | 9.4 | 16.0 | 10.8 | 8.9 | 28.2 |
| 7 | 100 | 6.1 | 8.1 | 10.2 | 8.4 | 6.5 | 7.3 | 7.3 | 9.3 | 9.7 | 10.6 | 8.1 | 13.8 | 9.3 | 7.7 | 24.4 |
| 7 | 110 | 5.2 | 6.9 | 8.7 | 7.1 | 5.5 | 6.2 | 6.2 | 8.0 | 8.3 | 9.0 | 6.9 | 11.8 | 8.0 | 6.6 | 20.8 |
| 7 | 125 | 4.2 | 5.6 | 7.1 | 5.8 | 4.5 | 5.1 | 5.1 | 6.5 | 6.8 | 7.3 | 5.6 | 9.6 | 6.5 | 5.4 | 16.9 |
| 8 | 90 | 6.5 | 8.7 | 10.9 | 9.0 | 7.0 | 7.8 | 7.8 | 10.0 | 10.5 | 11.3 | 8.7 | 14.8 | 10.0 | 8.3 | 26.1 |
| 8 | 100 | 5.6 | 7.5 | 9.4 | 7.7 | 6.0 | 6.7 | 6.7 | 8.6 | 9.0 | 9.7 | 7.5 | 12.7 | 8.6 | 7.1 | 22.5 |
| 8 | 110 | 4.8 | 6.4 | 8.0 | 6.6 | 5.1 | 5.7 | 5.7 | 7.3 | 7.6 | 8.3 | 6.4 | 10.8 | 7.3 | 6.0 | 19.1 |
| 8 | 125 | 3.9 | 5.2 | 6.5 | 5.3 | 4.2 | 4.7 | 4.7 | 6.0 | 6.2 | 6.7 | 5.2 | 8.8 | 6.0 | 4.9 | 15.6 |

Thick Paint, Heavy Millscale or Heavy Pitted Rust

Soft Coating

Medium Profile Range

SSPC-SP 5

Tables 4212 CP

| Operating Conditions | | Consumption Rate lbs/ft² of Blasting | | | | | | | | | | | | | | |
|----------------------|----------------|--------------------------------------|--------|------|-----------------------------|------|--------|------|--------------------------------|------------|--------|--------|--------------|---------|-------|------|
| | | Typical Mineral Abrasive | | | Refinery & By-Product Grits | | | | Natural or Mined Grits & Sands | | | | Manufactured | | | |
| Nozzle Size | Pressure (psi) | -25% | Median | +25% | Copper | Coal | Nickel | Iron | Olivine | Staurolite | Garnet | Silica | Zircon | Alumina | Glass | |
| 6 | 90 | 14.9 | 19.8 | 24.8 | 20.4 | 15.9 | 17.9 | 17.9 | 22.8 | 23.8 | 25.8 | 19.8 | 33.7 | 22.8 | 18.9 | 59.5 |
| 6 | 100 | 12.7 | 16.9 | 21.2 | 17.4 | 13.6 | 15.2 | 15.2 | 19.5 | 20.3 | 22.0 | 16.9 | 28.8 | 19.5 | 16.1 | 50.8 |
| 6 | 110 | 10.8 | 14.4 | 18.0 | 14.9 | 11.5 | 13.0 | 13.0 | 16.6 | 17.3 | 18.8 | 14.4 | 24.5 | 16.6 | 13.7 | 43.3 |
| 6 | 125 | 8.9 | 11.8 | 14.8 | 12.2 | 9.4 | 10.6 | 10.6 | 13.6 | 14.2 | 15.3 | 11.8 | 20.1 | 13.6 | 11.2 | 35.4 |
| 7 | 90 | 14.1 | 18.8 | 23.5 | 19.4 | 15.0 | 16.9 | 16.9 | 21.6 | 22.6 | 24.4 | 18.8 | 32.0 | 21.6 | 17.9 | 56.4 |
| 7 | 100 | 12.1 | 16.2 | 20.2 | 16.6 | 12.9 | 14.5 | 14.5 | 18.6 | 19.4 | 21.0 | 16.2 | 27.5 | 18.6 | 15.4 | 48.5 |
| 7 | 110 | 10.4 | 13.9 | 17.4 | 14.3 | 11.1 | 12.5 | 12.5 | 16.0 | 16.7 | 18.1 | 13.9 | 23.7 | 16.0 | 13.2 | 41.8 |
| 7 | 125 | 8.5 | 11.3 | 14.1 | 11.6 | 9.0 | 10.2 | 10.2 | 13.0 | 13.6 | 14.7 | 11.3 | 19.2 | 13.0 | 10.7 | 33.9 |
| 8 | 90 | 13.1 | 17.5 | 21.9 | 18.0 | 14.0 | 15.8 | 15.8 | 20.1 | 21.0 | 22.8 | 17.5 | 29.8 | 20.1 | 16.6 | 52.5 |
| 8 | 100 | 11.2 | 15.0 | 18.7 | 15.4 | 12.0 | 13.5 | 13.5 | 17.2 | 18.0 | 19.5 | 15.0 | 25.5 | 17.2 | 14.2 | 45.0 |
| 8 | 110 | 9.5 | 12.7 | 15.9 | 13.1 | 10.2 | 11.5 | 11.5 | 14.6 | 15.3 | 16.5 | 12.7 | 21.6 | 14.6 | 12.1 | 38.2 |
| 8 | 125 | 7.8 | 10.4 | 13.0 | 10.7 | 8.3 | 9.3 | 9.3 | 11.9 | 12.5 | 13.5 | 10.4 | 17.6 | 11.9 | 9.9 | 31.1 |

Thick Paint, Heavy Millscale or Heavy Pitted Rust

Soft Coating

High Profile Range

SSPC-SP 5

Tables 4213 CP

| Operating Conditions | | Consumption Rate lbs/ft² of Blasting | | | | | | | | | | | | | | |
|----------------------|----------------|--------------------------------------|--------|------|-----------------------------|------|--------|------|--------------------------------|------------|--------|--------|--------------|---------|-------|------|
| | | Typical Mineral Abrasive | | | Refinery & By-Product Grits | | | | Natural or Mined Grits & Sands | | | | Manufactured | | | |
| Nozzle Size | Pressure (psi) | -25% | Median | +25% | Copper | Coal | Nickel | Iron | Olivine | Staurolite | Garnet | Silica | Zircon | Alumina | Glass | |
| 6 | 90 | 4.5 | 6.0 | 7.5 | 6.2 | 4.8 | 5.4 | 5.4 | 6.9 | 7.2 | 7.8 | 6.0 | 10.2 | 6.9 | 5.7 | 17.9 |
| 6 | 100 | 3.8 | 5.1 | 6.4 | 5.3 | 4.1 | 4.6 | 4.6 | 5.9 | 6.1 | 6.7 | 5.1 | 8.7 | 5.9 | 4.9 | 15.4 |
| 6 | 110 | 3.2 | 4.3 | 5.4 | 4.4 | 3.5 | 3.9 | 3.9 | 5.0 | 5.2 | 5.6 | 4.3 | 7.3 | 5.0 | 4.1 | 13.0 |
| 6 | 125 | 2.6 | 3.5 | 4.4 | 3.6 | 2.8 | 3.2 | 3.2 | 4.1 | 4.2 | 4.6 | 3.5 | 6.0 | 4.1 | 3.4 | 10.6 |
| 7 | 90 | 4.4 | 5.8 | 7.3 | 6.0 | 4.7 | 5.2 | 5.2 | 6.7 | 7.0 | 7.6 | 5.8 | 9.9 | 6.7 | 5.5 | 17.4 |
| 7 | 100 | 3.8 | 5.0 | 6.3 | 5.2 | 4.0 | 4.5 | 4.5 | 5.8 | 6.0 | 6.5 | 5.0 | 8.5 | 5.8 | 4.8 | 15.1 |
| 7 | 110 | 3.2 | 4.3 | 5.4 | 4.4 | 3.4 | 3.9 | 3.9 | 4.9 | 5.1 | 5.6 | 4.3 | 7.3 | 4.9 | 4.1 | 12.9 |
| 7 | 125 | 2.6 | 3.5 | 4.4 | 3.6 | 2.8 | 3.2 | 3.2 | 4.0 | 4.2 | 4.6 | 3.5 | 6.0 | 4.0 | 3.3 | 10.5 |
| 8 | 90 | 3.9 | 5.2 | 6.6 | 5.4 | 4.2 | 4.7 | 4.7 | 6.0 | 6.3 | 6.8 | 5.2 | 8.9 | 6.0 | 5.0 | 15.7 |
| 8 | 100 | 3.4 | 4.5 | 5.6 | 4.6 | 3.6 | 4.0 | 4.0 | 5.2 | 5.4 | 5.8 | 4.5 | 7.6 | 5.2 | 4.3 | 13.5 |
| 8 | 110 | 2.9 | 3.8 | 4.8 | 3.9 | 3.1 | 3.4 | 3.4 | 4.4 | 4.6 | 5.0 | 3.8 | 6.5 | 4.4 | 3.6 | 11.5 |
| 8 | 125 | 2.3 | 3.1 | 3.9 | 3.2 | 2.5 | 2.8 | 2.8 | 3.6 | 3.7 | 4.0 | 3.1 | 5.3 | 3.6 | 3.0 | 9.3 |

Thick Paint, Heavy Millscale or Heavy Pitted Rust

Soft Coating

Low Profile Range

SSPC-SP 10

Tables 4221 CP

| Operating Conditions | | Consumption Rate lbs/ft² of Blasting | | | | | | | | | | | | | | |
|----------------------|----------------|--------------------------------------|--------|------|-----------------------------|------|--------|------|--------------------------------|------------|--------|--------|--------------|---------|-------|------|
| | | Typical Mineral Abrasive | | | Refinery & By-Product Grits | | | | Natural or Mined Grits & Sands | | | | Manufactured | | | |
| Nozzle Size | Pressure (psi) | -25% | Median | +25% | Copper | Coal | Nickel | Iron | Olivine | Staurolite | Garnet | Silica | Zircon | Alumina | Glass | Iron |
| 6 | 90 | 6.7 | 9.0 | 11.2 | 9.3 | 7.2 | 8.1 | 8.1 | 10.3 | 10.8 | 11.7 | 9.0 | 15.3 | 10.3 | 8.5 | 27.0 |
| 6 | 100 | 5.8 | 7.7 | 9.6 | 7.9 | 6.1 | 6.9 | 6.9 | 8.8 | 9.2 | 10.0 | 7.7 | 13.1 | 8.8 | 7.3 | 23.0 |
| 6 | 110 | 4.8 | 6.5 | 8.1 | 6.6 | 5.2 | 5.8 | 5.8 | 7.4 | 7.7 | 8.4 | 6.5 | 11.0 | 7.4 | 6.1 | 19.4 |
| 6 | 125 | 4.0 | 5.3 | 6.6 | 5.5 | 4.2 | 4.8 | 4.8 | 6.1 | 6.4 | 6.9 | 5.3 | 9.0 | 6.1 | 5.0 | 15.9 |
| 7 | 90 | 6.5 | 8.7 | 10.9 | 9.0 | 7.0 | 7.9 | 7.9 | 10.0 | 10.5 | 11.3 | 8.7 | 14.8 | 10.0 | 8.3 | 26.2 |
| 7 | 100 | 5.7 | 7.5 | 9.4 | 7.8 | 6.0 | 6.8 | 6.8 | 8.7 | 9.1 | 9.8 | 7.5 | 12.8 | 8.7 | 7.2 | 22.6 |
| 7 | 110 | 4.8 | 6.4 | 8.0 | 6.6 | 5.1 | 5.8 | 5.8 | 7.4 | 7.7 | 8.4 | 6.4 | 10.9 | 7.4 | 6.1 | 19.3 |
| 7 | 125 | 3.9 | 5.3 | 6.6 | 5.4 | 4.2 | 4.7 | 4.7 | 6.1 | 6.3 | 6.8 | 5.3 | 8.9 | 6.1 | 5.0 | 15.8 |
| 8 | 90 | 5.9 | 7.9 | 9.8 | 8.1 | 6.3 | 7.1 | 7.1 | 9.0 | 9.4 | 10.2 | 7.9 | 13.4 | 9.0 | 7.5 | 23.6 |
| 8 | 100 | 5.1 | 6.7 | 8.4 | 6.9 | 5.4 | 6.1 | 6.1 | 7.8 | 8.1 | 8.8 | 6.7 | 11.5 | 7.8 | 6.4 | 20.2 |
| 8 | 110 | 4.3 | 5.7 | 7.2 | 5.9 | 4.6 | 5.2 | 5.2 | 6.6 | 6.9 | 7.5 | 5.7 | 9.8 | 6.6 | 5.5 | 17.2 |
| 8 | 125 | 3.5 | 4.7 | 5.8 | 4.8 | 3.7 | 4.2 | 4.2 | 5.4 | 5.6 | 6.1 | 4.7 | 7.9 | 5.4 | 4.4 | 14.0 |

Thick Paint, Heavy Millscale or Heavy Pitted Rust

Soft Coating

Medium Profile Range

SSPC-SP 10

Tables 4222 CP

| Operating Conditions | | Consumption Rate lbs/ft² of Blasting | | | | | | | | | | | | | | |
|----------------------|----------------|--------------------------------------|--------|------|-----------------------------|------|--------|------|--------------------------------|------------|--------|--------|--------------|---------|-------|------|
| | | Typical Mineral Abrasive | | | Refinery & By-Product Grits | | | | Natural or Mined Grits & Sands | | | | Manufactured | | | |
| Nozzle Size | Pressure (psi) | -25% | Median | +25% | Copper | Coal | Nickel | Iron | Olivine | Staurolite | Garnet | Silica | Zircon | Alumina | Glass | |
| 6 | 90 | 13.4 | 17.8 | 22.3 | 18.4 | 14.3 | 16.0 | 16.0 | 20.5 | 21.4 | 23.2 | 17.8 | 30.3 | 20.5 | 16.9 | 53.5 |
| 6 | 100 | 11.5 | 15.4 | 19.2 | 15.8 | 12.3 | 13.8 | 13.8 | 17.7 | 18.4 | 20.0 | 15.4 | 26.1 | 17.7 | 14.6 | 46.1 |
| 6 | 110 | 9.7 | 12.9 | 16.1 | 13.3 | 10.3 | 11.6 | 11.6 | 14.8 | 15.5 | 16.8 | 12.9 | 21.9 | 14.8 | 12.3 | 38.7 |
| 6 | 125 | 7.9 | 10.6 | 13.2 | 10.9 | 8.4 | 9.5 | 9.5 | 12.1 | 12.7 | 13.7 | 10.6 | 17.9 | 12.1 | 10.0 | 31.7 |
| 7 | 90 | 13.1 | 17.4 | 21.8 | 18.0 | 14.0 | 15.7 | 15.7 | 20.1 | 20.9 | 22.7 | 17.4 | 29.7 | 20.1 | 16.6 | 52.3 |
| 7 | 100 | 11.3 | 15.1 | 18.9 | 15.5 | 12.1 | 13.6 | 13.6 | 17.3 | 18.1 | 19.6 | 15.1 | 25.6 | 17.3 | 14.3 | 45.3 |
| 7 | 110 | 9.7 | 12.9 | 16.1 | 13.3 | 10.3 | 11.6 | 11.6 | 14.8 | 15.4 | 16.7 | 12.9 | 21.9 | 14.8 | 12.2 | 38.6 |
| 7 | 125 | 7.9 | 10.5 | 13.1 | 10.8 | 8.4 | 9.4 | 9.4 | 12.1 | 12.6 | 13.6 | 10.5 | 17.8 | 12.1 | 10.0 | 31.5 |
| 8 | 90 | 11.8 | 15.7 | 19.7 | 16.2 | 12.6 | 14.2 | 14.2 | 18.1 | 18.9 | 20.4 | 15.7 | 26.7 | 18.1 | 14.9 | 47.2 |
| 8 | 100 | 10.1 | 13.5 | 16.9 | 13.9 | 10.8 | 12.1 | 12.1 | 15.5 | 16.2 | 17.5 | 13.5 | 22.9 | 15.5 | 12.8 | 40.5 |
| 8 | 110 | 8.6 | 11.4 | 14.3 | 11.8 | 9.2 | 10.3 | 10.3 | 13.2 | 13.7 | 14.9 | 11.4 | 19.5 | 13.2 | 10.9 | 34.3 |
| 8 | 125 | 7.0 | 9.3 | 11.7 | 9.6 | 7.5 | 8.4 | 8.4 | 10.8 | 11.2 | 12.2 | 9.3 | 15.9 | 10.8 | 8.9 | 28.0 |

Thick Paint, Heavy Millscale or Heavy Pitted Rust

Soft Coating

High Profile Range

SSPC-SP 10

Tables 4223 CP

| Operating Conditions | | Consumption Rate lbs/ft² of Blasting | | | | | | | | | | | | | | |
|----------------------|----------------|--------------------------------------|--------|------|-----------------------------|------|--------|------|--------------------------------|------------|--------|--------|--------------|---------|-------|-----|
| | | Typical Mineral Abrasive | | | Refinery & By-Product Grits | | | | Natural or Mined Grits & Sands | | | | Manufactured | | | |
| Nozzle Size | Pressure (psi) | -25% | Median | +25% | Copper | Coal | Nickel | Iron | Olivine | Staurolite | Garnet | Silica | Zircon | Alumina | Glass | |
| 6 | 90 | 2.2 | 3.0 | 3.7 | 3.1 | 2.4 | 2.7 | 2.7 | 3.4 | 3.6 | 3.9 | 3.0 | 5.1 | 3.4 | 2.8 | 8.9 |
| 6 | 100 | 1.9 | 2.6 | 3.2 | 2.6 | 2.0 | 2.3 | 2.3 | 2.9 | 3.1 | 3.3 | 2.6 | 4.4 | 2.9 | 2.4 | 7.7 |
| 6 | 110 | 1.6 | 2.2 | 2.7 | 2.2 | 1.7 | 1.9 | 1.9 | 2.5 | 2.6 | 2.8 | 2.2 | 3.7 | 2.5 | 2.1 | 6.5 |
| 6 | 125 | 1.3 | 1.8 | 2.2 | 1.8 | 1.4 | 1.6 | 1.6 | 2.0 | 2.1 | 2.3 | 1.8 | 3.0 | 2.0 | 1.7 | 5.3 |
| 7 | 90 | 2.0 | 2.7 | 3.4 | 2.8 | 2.2 | 2.5 | 2.5 | 3.1 | 3.3 | 3.5 | 2.7 | 4.6 | 3.1 | 2.6 | 8.2 |
| 7 | 100 | 1.8 | 2.3 | 2.9 | 2.4 | 1.9 | 2.1 | 2.1 | 2.7 | 2.8 | 3.1 | 2.3 | 4.0 | 2.7 | 2.2 | 7.0 |
| 7 | 110 | 1.5 | 2.0 | 2.5 | 2.1 | 1.6 | 1.8 | 1.8 | 2.3 | 2.4 | 2.6 | 2.0 | 3.4 | 2.3 | 1.9 | 6.0 |
| 7 | 125 | 1.2 | 1.6 | 2.0 | 1.7 | 1.3 | 1.5 | 1.5 | 1.9 | 2.0 | 2.1 | 1.6 | 2.8 | 1.9 | 1.6 | 4.9 |
| 8 | 90 | 2.0 | 2.6 | 3.3 | 2.7 | 2.1 | 2.4 | 2.4 | 3.0 | 3.1 | 3.4 | 2.6 | 4.5 | 3.0 | 2.5 | 7.9 |
| 8 | 100 | 1.7 | 2.2 | 2.8 | 2.3 | 1.8 | 2.0 | 2.0 | 2.6 | 2.7 | 2.9 | 2.2 | 3.8 | 2.6 | 2.1 | 6.7 |
| 8 | 110 | 1.4 | 1.9 | 2.4 | 2.0 | 1.5 | 1.7 | 1.7 | 2.2 | 2.3 | 2.5 | 1.9 | 3.2 | 2.2 | 1.8 | 5.7 |
| 8 | 125 | 1.2 | 1.6 | 1.9 | 1.6 | 1.2 | 1.4 | 1.4 | 1.8 | 1.9 | 2.0 | 1.6 | 2.7 | 1.8 | 1.5 | 4.7 |

Thick Paint, Heavy Millscale or Heavy Pitted Rust

Soft Coating

Low Profile Range

SSPC-SP 6

Tables 4231 CP

| Operating Conditions | | Consumption Rate lbs/ft² of Blasting | | | | | | | | | | | | | | |
|----------------------|----------------|--------------------------------------|--------|------|-----------------------------|------|--------|------|--------------------------------|------------|--------|--------|--------------|---------|-------|------|
| | | Typical Mineral Abrasive | | | Refinery & By-Product Grits | | | | Natural or Mined Grits & Sands | | | | Manufactured | | | |
| Nozzle Size | Pressure (psi) | -25% | Median | +25% | Copper | Coal | Nickel | Iron | Olivine | Staurolite | Garnet | Silica | Zircon | Alumina | Glass | |
| 6 | 90 | 3.3 | 4.5 | 5.6 | 4.6 | 3.6 | 4.0 | 4.0 | 5.1 | 5.3 | 5.8 | 4.5 | 7.6 | 5.1 | 4.2 | 13.4 |
| 6 | 100 | 2.9 | 3.8 | 4.8 | 4.0 | 3.1 | 3.5 | 3.5 | 4.4 | 4.6 | 5.0 | 3.8 | 6.5 | 4.4 | 3.6 | 11.5 |
| 6 | 110 | 2.4 | 3.3 | 4.1 | 3.3 | 2.6 | 2.9 | 2.9 | 3.7 | 3.9 | 4.2 | 3.3 | 5.5 | 3.7 | 3.1 | 9.8 |
| 6 | 125 | 2.0 | 2.6 | 3.3 | 2.7 | 2.1 | 2.4 | 2.4 | 3.0 | 3.2 | 3.4 | 2.6 | 4.5 | 3.0 | 2.5 | 7.9 |
| 7 | 90 | 3.1 | 4.1 | 5.1 | 4.2 | 3.3 | 3.7 | 3.7 | 4.7 | 4.9 | 5.3 | 4.1 | 7.0 | 4.7 | 3.9 | 12.3 |
| 7 | 100 | 2.6 | 3.5 | 4.4 | 3.6 | 2.8 | 3.2 | 3.2 | 4.0 | 4.2 | 4.6 | 3.5 | 6.0 | 4.0 | 3.3 | 10.6 |
| 7 | 110 | 2.2 | 3.0 | 3.7 | 3.1 | 2.4 | 2.7 | 2.7 | 3.4 | 3.6 | 3.9 | 3.0 | 5.1 | 3.4 | 2.8 | 9.0 |
| 7 | 125 | 1.8 | 2.5 | 3.1 | 2.5 | 2.0 | 2.2 | 2.2 | 2.8 | 2.9 | 3.2 | 2.5 | 4.2 | 2.8 | 2.3 | 7.4 |
| 8 | 90 | 2.9 | 3.9 | 4.9 | 4.0 | 3.1 | 3.5 | 3.5 | 4.5 | 4.7 | 5.1 | 3.9 | 6.7 | 4.5 | 3.7 | 11.8 |
| 8 | 100 | 2.5 | 3.4 | 4.2 | 3.5 | 2.7 | 3.0 | 3.0 | 3.9 | 4.0 | 4.4 | 3.4 | 5.7 | 3.9 | 3.2 | 10.1 |
| 8 | 110 | 2.1 | 2.9 | 3.6 | 3.0 | 2.3 | 2.6 | 2.6 | 3.3 | 3.4 | 3.7 | 2.9 | 4.9 | 3.3 | 2.7 | 8.6 |
| 8 | 125 | 1.8 | 2.3 | 2.9 | 2.4 | 1.9 | 2.1 | 2.1 | 2.7 | 2.8 | 3.0 | 2.3 | 4.0 | 2.7 | 2.2 | 7.0 |

Thick Paint, Heavy Millscale or Heavy Pitted Rust

Soft Coating

Medium Profile Range

SSPC-SP 6

Tables 4232 CP

| Operating Conditions | | Consumption Rate lbs/ft² of Blasting | | | | | | | | | | | | | | |
|----------------------|----------------|--------------------------------------|--------|------|-----------------------------|------|--------|------|--------------------------------|------------|--------|--------|--------------|---------|-------|------|
| | | Typical Mineral Abrasive | | | Refinery & By-Product Grits | | | | Natural or Mined Grits & Sands | | | | Manufactured | | | |
| Nozzle Size | Pressure (psi) | -25% | Median | +25% | Copper | Coal | Nickel | Iron | Olivine | Staurolite | Garnet | Silica | Zircon | Alumina | Glass | |
| 6 | 90 | 6.7 | 8.9 | 11.1 | 9.2 | 7.1 | 8.0 | 8.0 | 10.3 | 10.7 | 11.6 | 8.9 | 15.2 | 10.3 | 8.5 | 26.7 |
| 6 | 100 | 5.8 | 7.7 | 9.6 | 7.9 | 6.1 | 6.9 | 6.9 | 8.8 | 9.2 | 10.0 | 7.7 | 13.1 | 8.8 | 7.3 | 23.0 |
| 6 | 110 | 4.9 | 6.5 | 8.1 | 6.7 | 5.2 | 5.8 | 5.8 | 7.5 | 7.8 | 8.4 | 6.5 | 11.0 | 7.5 | 6.2 | 19.5 |
| 6 | 125 | 4.0 | 5.3 | 6.6 | 5.5 | 4.2 | 4.8 | 4.8 | 6.1 | 6.4 | 6.9 | 5.3 | 9.0 | 6.1 | 5.0 | 15.9 |
| 7 | 90 | 6.1 | 8.2 | 10.2 | 8.4 | 6.5 | 7.4 | 7.4 | 9.4 | 9.8 | 10.6 | 8.2 | 13.9 | 9.4 | 7.8 | 24.5 |
| 7 | 100 | 5.3 | 7.0 | 8.8 | 7.3 | 5.6 | 6.3 | 6.3 | 8.1 | 8.4 | 9.2 | 7.0 | 12.0 | 8.1 | 6.7 | 21.1 |
| 7 | 110 | 4.5 | 6.0 | 7.5 | 6.2 | 4.8 | 5.4 | 5.4 | 6.9 | 7.2 | 7.8 | 6.0 | 10.2 | 6.9 | 5.7 | 17.9 |
| 7 | 125 | 3.7 | 4.9 | 6.1 | 5.0 | 3.9 | 4.4 | 4.4 | 5.6 | 5.9 | 6.4 | 4.9 | 8.3 | 5.6 | 4.7 | 14.7 |
| 8 | 90 | 5.9 | 7.9 | 9.8 | 8.1 | 6.3 | 7.1 | 7.1 | 9.0 | 9.4 | 10.2 | 7.9 | 13.4 | 9.0 | 7.5 | 23.6 |
| 8 | 100 | 5.1 | 6.7 | 8.4 | 6.9 | 5.4 | 6.1 | 6.1 | 7.8 | 8.1 | 8.8 | 6.7 | 11.5 | 7.8 | 6.4 | 20.2 |
| 8 | 110 | 4.3 | 5.7 | 7.2 | 5.9 | 4.6 | 5.2 | 5.2 | 6.6 | 6.9 | 7.5 | 5.7 | 9.8 | 6.6 | 5.5 | 17.2 |
| 8 | 125 | 3.5 | 4.7 | 5.8 | 4.8 | 3.7 | 4.2 | 4.2 | 5.4 | 5.6 | 6.1 | 4.7 | 7.9 | 5.4 | 4.4 | 14.0 |

Thick Paint, Heavy Millscale or Heavy Pitted Rust

Soft Coating

High Profile Range

SSPC-SP 6

Tables 4233 CP

| Operating Conditions | | Consumption Rate lbs/ft² of Blasting | | | | | | | | | | | | | | |
|----------------------|----------------|--------------------------------------|--------|------|-----------------------------|------|--------|------|--------------------------------|------------|--------|--------|--------------|---------|-------|-----|
| | | Typical Mineral Abrasive | | | Refinery & By-Product Grits | | | | Natural or Mined Grits & Sands | | | | Manufactured | | | |
| Nozzle Size | Pressure (psi) | -25% | Median | +25% | Copper | Coal | Nickel | Iron | Olivine | Staurolite | Garnet | Silica | Zircon | Alumina | Glass | |
| 6 | 90 | 1.0 | 1.3 | 1.7 | 1.4 | 1.1 | 1.2 | 1.2 | 1.5 | 1.6 | 1.7 | 1.3 | 2.3 | 1.5 | 1.3 | 4.0 |
| 7 | 90 | 0.9 | 1.2 | 1.5 | 1.3 | 1.0 | 1.1 | 1.1 | 1.4 | 1.5 | 1.6 | 1.2 | 2.1 | 1.4 | 1.2 | 3.7 |
| 8 | 90 | 0.9 | 1.2 | 1.5 | 1.2 | 0.9 | 1.1 | 1.1 | 1.4 | 1.4 | 1.5 | 1.2 | 2.0 | 1.4 | 1.1 | 3.5 |
| 6 | 100 | 0.9 | 1.2 | 1.4 | 1.2 | 0.9 | 1.0 | 1.0 | 1.3 | 1.4 | 1.5 | 1.2 | 2.0 | 1.3 | 1.1 | 3.5 |
| 7 | 100 | 0.8 | 1.1 | 1.3 | 1.1 | 0.8 | 1.0 | 1.0 | 1.2 | 1.3 | 1.4 | 1.1 | 1.8 | 1.2 | 1.0 | 3.2 |
| 8 | 100 | 0.8 | 1.0 | 1.3 | 1.0 | 0.8 | 0.9 | 0.9 | 1.2 | 1.2 | 1.3 | 1.0 | 1.7 | 1.2 | 1.0 | 3.0 |
| 6 | 110 | 0.7 | 1.0 | 1.2 | 1.0 | 0.8 | 0.9 | 0.9 | 1.1 | 1.2 | 1.3 | 1.0 | 1.7 | 1.1 | 0.9 | 2.9 |
| 7 | 110 | 0.7 | 0.9 | 1.1 | 0.9 | 0.7 | 0.8 | 0.8 | 1.0 | 1.1 | 1.2 | 0.9 | 1.5 | 1.0 | 0.9 | 2.7 |
| 8 | 110 | 0.6 | 0.9 | 1.1 | 0.9 | 0.7 | 0.8 | 0.8 | 1.0 | 1.0 | 1.1 | 0.9 | 1.5 | 1.0 | 0.8 | 2.6 |
| 6 | 125 | 0.6 | 0.8 | 1.0 | 0.8 | 0.6 | 0.7 | 0.7 | 0.9 | 1.0 | 1.0 | 0.8 | 1.4 | 0.9 | 0.8 | 2.4 |
| 7 | 125 | 0.6 | 0.7 | 0.9 | 0.8 | 0.6 | 0.7 | 0.7 | 0.8 | 0.9 | 1.0 | 0.7 | 1.2 | 0.8 | 0.7 | 2.2 |
| 8 | 125 | 0.5 | 0.7 | 0.9 | 0.7 | 0.6 | 0.6 | 0.6 | 0.8 | 0.8 | 0.9 | 0.7 | 1.2 | 0.8 | 0.7 | 2.1 |

Thick Paint, Heavy Millscale or Heavy Pitted Rust

Soft Coating

Low Profile Range

SSPC-SP 7

Tables 4241 CP

**Tables 1111 Through
4241 RCC, RCP, PR**

**This Section of The Data Tables Contains Tables
from 1111 through 4241 for Recyclable Abrasive
Consumption, Abrasive Productivity and Produc-
tion Rates.**

| Operating Conditions | | Median Production Rate ft ² /hr | Consumption Rate lbs/hr | | | Consumption Rate lbs/ft ² | | | Production Rate ft ² /hr of Blasting ¹ | | |
|----------------------|----------------|--|-------------------------|--------|---------|--------------------------------------|--------|---------|--|--------|---------|
| Nozzle Size | Pressure (psi) | | Steel Iron | Garnet | Alumina | Steel Iron | Garnet | Alumina | Steel Iron | Garnet | Alumina |
| | | 1111 | RCC With Recycling | | | | | | | | |
| 6 | 90 | 260 | 32 | 381 | 139 | 0.1 | 1.3 | 0.5 | 239 | 263 | 246 |
| 7 | 90 | 377 | 44 | 525 | 191 | 0.1 | 1.2 | 0.5 | 347 | 381 | 356 |
| 8 | 90 | 520 | 57 | 673 | 245 | 0.1 | 1.2 | 0.5 | 479 | 525 | 491 |
| 6 | 100 | 330 | 35 | 418 | 152 | 0.1 | 1.1 | 0.4 | 336 | 368 | 344 |
| 7 | 100 | 480 | 48 | 574 | 209 | 0.1 | 1.1 | 0.4 | 488 | 535 | 501 |
| 8 | 100 | 660 | 62 | 734 | 267 | 0.1 | 1.0 | 0.4 | 671 | 736 | 689 |
| 6 | 110 | 415 | 37 | 444 | 162 | 0.1 | 1.0 | 0.4 | 466 | 511 | 478 |
| 7 | 110 | 605 | 52 | 616 | 224 | 0.1 | 0.9 | 0.4 | 679 | 745 | 697 |
| 8 | 110 | 831 | 66 | 784 | 286 | 0.1 | 0.8 | 0.3 | 933 | 1024 | 958 |
| 6 | 125 | 578 | 42 | 505 | 184 | 0.1 | 0.8 | 0.3 | 754 | 827 | 773 |
| 7 | 125 | 841 | 59 | 700 | 255 | 0.1 | 0.7 | 0.3 | 1097 | 1203 | 1125 |
| 8 | 125 | 1157 | 75 | 891 | 325 | 0.1 | 0.7 | 0.3 | 1509 | 1655 | 1548 |

¹ Production rates are based on a consensus of replies to a user survey.

Light Rust, Millscale or Loose Paint

Tables 1111

Hard Coating

Low Profile Range

SSPC-SP 5

RCC , RCP and PR

| Operating Conditions | | Median Production Rate ft ² /hr | Consumption Rate lbs/hr | | | Consumption Rate lbs/ft ² | | | Production Rate ft ² /hr of Blasting ¹ | | |
|----------------------|----------------|--|-------------------------|--------|---------|--------------------------------------|--------|---------|--|--------|---------|
| Nozzle Size | Pressure (psi) | | Steel Iron | Garnet | Alumina | Steel Iron | Garnet | Alumina | Steel Iron | Garnet | Alumina |
| | | 1112 | RCC With Recycling | | | | | | | | |
| 6 | 90 | 173 | 32 | 381 | 139 | 0.2 | 2.0 | 0.8 | 159 | 175 | 163 |
| 7 | 90 | 251 | 44 | 525 | 191 | 0.2 | 1.9 | 0.7 | 231 | 253 | 237 |
| 8 | 90 | 346 | 57 | 673 | 245 | 0.2 | 1.7 | 0.7 | 318 | 349 | 327 |
| 6 | 100 | 220 | 35 | 418 | 152 | 0.2 | 1.7 | 0.7 | 224 | 245 | 230 |
| 7 | 100 | 320 | 48 | 574 | 209 | 0.1 | 1.6 | 0.6 | 325 | 357 | 334 |
| 8 | 100 | 440 | 62 | 734 | 267 | 0.1 | 1.5 | 0.6 | 447 | 491 | 459 |
| 6 | 110 | 277 | 37 | 444 | 162 | 0.1 | 1.4 | 0.6 | 311 | 341 | 319 |
| 7 | 110 | 403 | 52 | 616 | 224 | 0.1 | 1.4 | 0.5 | 453 | 497 | 465 |
| 8 | 110 | 554 | 66 | 784 | 286 | 0.1 | 1.3 | 0.5 | 622 | 683 | 639 |
| 6 | 125 | 385 | 42 | 505 | 184 | 0.1 | 1.2 | 0.5 | 502 | 551 | 515 |
| 7 | 125 | 561 | 59 | 700 | 255 | 0.1 | 1.1 | 0.4 | 731 | 802 | 751 |
| 8 | 125 | 772 | 75 | 891 | 325 | 0.1 | 1.0 | 0.4 | 1007 | 1104 | 1033 |

¹ Production rates are based on a consensus of replies to a user survey.

Light Rust, Millscale or Loose Paint

Tables 1112

Hard Coating

Medium Profile Range

SSPC-SP 5

RCC , RCP and PR

| Operating Conditions | | Median Production Rate ft ² /hr | Consumption Rate lbs/hr | | | Consumption Rate lbs/ft ² | | | Production Rate ft ² /hr of Blasting ¹ | | |
|----------------------|----------------|--|-------------------------|--------|---------|--------------------------------------|--------|---------|--|--------|---------|
| Nozzle Size | Pressure (psi) | | Steel Iron | Garnet | Alumina | Steel Iron | Garnet | Alumina | Steel Iron | Garnet | Alumina |
| | | 1113 | RCC With Recycling | | | | | | | | |
| 6 | 90 | 87 | 32 | 381 | 139 | 0.4 | 3.9 | 1.5 | 80 | 88 | 82 |
| 7 | 90 | 126 | 44 | 525 | 191 | 0.3 | 3.7 | 1.5 | 116 | 127 | 119 |
| 8 | 90 | 173 | 57 | 673 | 245 | 0.3 | 3.5 | 1.4 | 159 | 175 | 163 |
| 6 | 100 | 110 | 35 | 418 | 152 | 0.3 | 3.4 | 1.3 | 112 | 123 | 115 |
| 7 | 100 | 160 | 48 | 574 | 209 | 0.3 | 3.2 | 1.3 | 163 | 178 | 167 |
| 8 | 100 | 220 | 62 | 734 | 267 | 0.3 | 3.0 | 1.2 | 224 | 245 | 230 |
| 6 | 110 | 138 | 37 | 444 | 162 | 0.3 | 2.9 | 1.1 | 155 | 170 | 159 |
| 7 | 110 | 202 | 52 | 616 | 224 | 0.3 | 2.7 | 1.1 | 227 | 249 | 233 |
| 8 | 110 | 277 | 66 | 784 | 286 | 0.2 | 2.5 | 1.0 | 311 | 341 | 319 |
| 6 | 125 | 193 | 42 | 505 | 184 | 0.2 | 2.3 | 0.9 | 252 | 276 | 258 |
| 7 | 125 | 280 | 59 | 700 | 255 | 0.2 | 2.2 | 0.9 | 365 | 401 | 375 |
| 8 | 125 | 386 | 75 | 891 | 325 | 0.2 | 2.1 | 0.8 | 503 | 552 | 517 |

¹ Production rates are based on a consensus of replies to a user survey.

Light Rust, Millscale or Loose Paint

Tables 1113

Hard Coating

High Profile Range

SSPC-SP 5

RCC , RCP and PR

| Operating Conditions | | Median Production Rate ft ² /hr | Consumption Rate lbs/hr | | | Consumption Rate lbs/ft ² | | | Production Rate ft ² /hr of Blasting ¹ | | |
|----------------------|----------------|--|-------------------------|--------|---------|--------------------------------------|--------|---------|--|--------|---------|
| Nozzle Size | Pressure (psi) | | Steel Iron | Garnet | Alumina | Steel Iron | Garnet | Alumina | Steel Iron | Garnet | Alumina |
| | | 1121 | RCC With Recycling | | | | | | | | |
| 6 | 90 | 283 | 32 | 381 | 139 | 0.1 | 1.2 | 0.5 | 260 | 286 | 267 |
| 7 | 90 | 414 | 44 | 525 | 191 | 0.1 | 1.1 | 0.4 | 381 | 418 | 391 |
| 8 | 90 | 567 | 57 | 673 | 245 | 0.1 | 1.1 | 0.4 | 522 | 573 | 536 |
| 6 | 100 | 360 | 35 | 418 | 152 | 0.1 | 1.0 | 0.4 | 366 | 402 | 376 |
| 7 | 100 | 525 | 48 | 574 | 209 | 0.1 | 1.0 | 0.4 | 534 | 586 | 548 |
| 8 | 100 | 720 | 62 | 734 | 267 | 0.1 | 0.9 | 0.4 | 732 | 803 | 751 |
| 6 | 110 | 453 | 37 | 444 | 162 | 0.1 | 0.9 | 0.3 | 509 | 558 | 522 |
| 7 | 110 | 660 | 52 | 616 | 224 | 0.1 | 0.8 | 0.3 | 741 | 813 | 761 |
| 8 | 110 | 907 | 66 | 784 | 286 | 0.1 | 0.8 | 0.3 | 1019 | 1117 | 1045 |
| 6 | 125 | 631 | 42 | 505 | 184 | 0.1 | 0.7 | 0.3 | 823 | 903 | 844 |
| 7 | 125 | 919 | 59 | 700 | 255 | 0.1 | 0.7 | 0.3 | 1198 | 1315 | 1230 |
| 8 | 125 | 1261 | 75 | 891 | 325 | 0.1 | 0.6 | 0.2 | 1644 | 1804 | 1687 |

¹ Production rates are based on a consensus of replies to a user survey.

Light Rust, Millscale or Loose Paint

Tables 1121

Hard Coating

Low Profile Range

SSPC-SP 10

RCC , RCP and PR

| Operating Conditions | | Median Production Rate ft ² /hr | Consumption Rate lbs/hr | | | Consumption Rate lbs/ft ² | | | Production Rate ft ² /hr of Blasting ¹ | | |
|----------------------|----------------|--|-------------------------|--------|---------|--------------------------------------|--------|---------|--|--------|---------|
| Nozzle Size | Pressure (psi) | | Steel Iron | Garnet | Alumina | Steel Iron | Garnet | Alumina | Steel Iron | Garnet | Alumina |
| | | 1122 | RCC With Recycling | | | | | | | | |
| 6 | 90 | 189 | 32 | 381 | 139 | 0.2 | 1.8 | 0.7 | 174 | 191 | 179 |
| 7 | 90 | 276 | 44 | 525 | 191 | 0.2 | 1.7 | 0.7 | 254 | 279 | 261 |
| 8 | 90 | 378 | 57 | 673 | 245 | 0.1 | 1.6 | 0.6 | 348 | 382 | 357 |
| 6 | 100 | 240 | 35 | 418 | 152 | 0.1 | 1.6 | 0.6 | 244 | 268 | 250 |
| 7 | 100 | 350 | 48 | 574 | 209 | 0.1 | 1.5 | 0.6 | 356 | 390 | 365 |
| 8 | 100 | 480 | 62 | 734 | 267 | 0.1 | 1.4 | 0.5 | 488 | 535 | 501 |
| 6 | 110 | 302 | 37 | 444 | 162 | 0.1 | 1.3 | 0.5 | 339 | 372 | 348 |
| 7 | 110 | 440 | 52 | 616 | 224 | 0.1 | 1.3 | 0.5 | 494 | 542 | 507 |
| 8 | 110 | 604 | 66 | 784 | 286 | 0.1 | 1.2 | 0.5 | 678 | 744 | 696 |
| 6 | 125 | 420 | 42 | 505 | 184 | 0.1 | 1.1 | 0.4 | 548 | 601 | 562 |
| 7 | 125 | 613 | 59 | 700 | 255 | 0.1 | 1.0 | 0.4 | 799 | 877 | 820 |
| 8 | 125 | 841 | 75 | 891 | 325 | 0.1 | 1.0 | 0.4 | 1097 | 1203 | 1125 |

¹ Production rates are based on a consensus of replies to a user survey.

Light Rust, Millscale or Loose Paint

Tables 1122

Hard Coating

Medium Profile Range

SSPC-SP 10

RCC , RCP and PR

| Operating Conditions | | Median Production Rate ft ² /hr | Consumption Rate lbs/hr | | | Consumption Rate lbs/ft ² | | | Production Rate ft ² /hr of Blasting ¹ | | |
|----------------------|----------------|--|-------------------------|--------|---------|--------------------------------------|--------|---------|--|--------|---------|
| Nozzle Size | Pressure (psi) | | Steel Iron | Garnet | Alumina | Steel Iron | Garnet | Alumina | Steel Iron | Garnet | Alumina |
| | | 1123 | RCC With Recycling | | | | | | | | |
| 6 | 90 | 94 | 32 | 381 | 139 | 0.3 | 3.6 | 1.4 | 87 | 95 | 89 |
| 7 | 90 | 138 | 44 | 525 | 191 | 0.3 | 3.4 | 1.3 | 127 | 139 | 130 |
| 8 | 90 | 189 | 57 | 673 | 245 | 0.3 | 3.2 | 1.2 | 174 | 191 | 179 |
| 6 | 100 | 120 | 35 | 418 | 152 | 0.3 | 3.1 | 1.2 | 122 | 134 | 125 |
| 7 | 100 | 175 | 48 | 574 | 209 | 0.3 | 2.9 | 1.1 | 178 | 195 | 183 |
| 8 | 100 | 240 | 62 | 734 | 267 | 0.3 | 2.7 | 1.1 | 244 | 268 | 250 |
| 6 | 110 | 151 | 37 | 444 | 162 | 0.2 | 2.6 | 1.0 | 170 | 186 | 174 |
| 7 | 110 | 220 | 52 | 616 | 224 | 0.2 | 2.5 | 1.0 | 247 | 271 | 254 |
| 8 | 110 | 302 | 66 | 784 | 286 | 0.2 | 2.3 | 0.9 | 339 | 372 | 348 |
| 6 | 125 | 210 | 42 | 505 | 184 | 0.2 | 2.2 | 0.8 | 274 | 300 | 281 |
| 7 | 125 | 306 | 59 | 700 | 255 | 0.2 | 2.1 | 0.8 | 399 | 438 | 409 |
| 8 | 125 | 420 | 75 | 891 | 325 | 0.2 | 1.9 | 0.7 | 548 | 601 | 562 |

¹ Production rates are based on a consensus of replies to a user survey.

Light Rust, Millscale or Loose Paint

Tables 1123

Hard Coating

High Profile Range

SSPC-SP 10

RCC , RCP and PR

| Operating Conditions | | Median Production Rate ft ² /hr | Consumption Rate lbs/hr | | | Consumption Rate lbs/ft ² | | | Production Rate ft ² /hr of Blasting ¹ | | |
|----------------------|----------------|--|-------------------------|--------|---------|--------------------------------------|--------|---------|--|--------|---------|
| Nozzle Size | Pressure (psi) | | Steel Iron | Garnet | Alumina | Steel Iron | Garnet | Alumina | Steel Iron | Garnet | Alumina |
| | | 1131 | RCC With Recycling | | | | | | | | |
| 6 | 90 | 590 | 32 | 381 | 139 | 0.1 | 0.6 | 0.2 | 543 | 596 | 557 |
| 7 | 90 | 886 | 44 | 525 | 191 | 0.0 | 0.5 | 0.2 | 815 | 895 | 837 |
| 8 | 90 | 1181 | 57 | 673 | 245 | 0.0 | 0.5 | 0.2 | 1087 | 1193 | 1116 |
| 6 | 100 | 750 | 35 | 418 | 152 | 0.0 | 0.5 | 0.2 | 763 | 837 | 783 |
| 7 | 100 | 1125 | 48 | 574 | 209 | 0.0 | 0.5 | 0.2 | 1144 | 1255 | 1174 |
| 8 | 100 | 1500 | 62 | 734 | 267 | 0.0 | 0.4 | 0.2 | 1525 | 1673 | 1565 |
| 6 | 110 | 945 | 37 | 444 | 162 | 0.0 | 0.4 | 0.2 | 1061 | 1164 | 1089 |
| 7 | 110 | 1415 | 52 | 616 | 224 | 0.0 | 0.4 | 0.2 | 1589 | 1743 | 1631 |
| 8 | 110 | 1887 | 66 | 784 | 286 | 0.0 | 0.4 | 0.1 | 2119 | 2325 | 2175 |
| 6 | 125 | 1314 | 42 | 505 | 184 | 0.0 | 0.3 | 0.1 | 1713 | 1880 | 1758 |
| 7 | 125 | 1973 | 59 | 700 | 255 | 0.0 | 0.3 | 0.1 | 2572 | 2822 | 2640 |
| 8 | 125 | 2629 | 75 | 891 | 325 | 0.0 | 0.3 | 0.1 | 3428 | 3761 | 3518 |

¹ Production rates are based on a consensus of replies to a user survey.

Light Rust, Millscale or Loose Paint

Tables 1131

Hard Coating

Low Profile Range

SSPC-SP 6

RCC , RCP and PR

| Operating Conditions | | Median Production Rate ft ² /hr | Consumption Rate lbs/hr | | | Consumption Rate lbs/ft ² | | | Production Rate ft ² /hr of Blasting ¹ | | |
|----------------------|----------------|--|-------------------------|--------|---------|--------------------------------------|--------|---------|--|--------|---------|
| Nozzle Size | Pressure (psi) | | Steel Iron | Garnet | Alumina | Steel Iron | Garnet | Alumina | Steel Iron | Garnet | Alumina |
| | | 1132 | RCC With Recycling | | | | | | | | |
| 6 | 90 | 393 | 32 | 381 | 139 | 0.1 | 0.9 | 0.3 | 362 | 397 | 371 |
| 7 | 90 | 591 | 44 | 525 | 191 | 0.1 | 0.8 | 0.3 | 544 | 597 | 558 |
| 8 | 90 | 788 | 57 | 673 | 245 | 0.1 | 0.8 | 0.3 | 725 | 796 | 744 |
| 6 | 100 | 500 | 35 | 418 | 152 | 0.1 | 0.7 | 0.3 | 508 | 558 | 522 |
| 7 | 100 | 750 | 48 | 574 | 209 | 0.1 | 0.7 | 0.3 | 763 | 837 | 783 |
| 8 | 100 | 1000 | 62 | 734 | 267 | 0.1 | 0.7 | 0.3 | 1017 | 1115 | 1043 |
| 6 | 110 | 630 | 37 | 444 | 162 | 0.1 | 0.6 | 0.2 | 708 | 776 | 726 |
| 7 | 110 | 943 | 52 | 616 | 224 | 0.1 | 0.6 | 0.2 | 1059 | 1162 | 1087 |
| 8 | 110 | 1258 | 66 | 784 | 286 | 0.1 | 0.6 | 0.2 | 1413 | 1550 | 1450 |
| 6 | 125 | 876 | 42 | 505 | 184 | 0.0 | 0.5 | 0.2 | 1142 | 1253 | 1172 |
| 7 | 125 | 1315 | 59 | 700 | 255 | 0.0 | 0.5 | 0.2 | 1715 | 1881 | 1760 |
| 8 | 125 | 1753 | 75 | 891 | 325 | 0.0 | 0.5 | 0.2 | 2286 | 2507 | 2346 |

¹ Production rates are based on a consensus of replies to a user survey.

Light Rust, Millscale or Loose Paint

Tables 1132

Hard Coating

Medium Profile Range

SSPC-SP 6

RCC , RCP and PR

| Operating Conditions | | Median Production Rate ft ² /hr | Consumption Rate lbs/hr | | | Consumption Rate lbs/ft ² | | | Production Rate ft ² /hr of Blasting ¹ | | |
|----------------------|----------------|--|-------------------------|--------|---------|--------------------------------------|--------|---------|--|--------|---------|
| Nozzle Size | Pressure (psi) | | Steel Iron | Garnet | Alumina | Steel Iron | Garnet | Alumina | Steel Iron | Garnet | Alumina |
| | | 1133 | RCC With Recycling | | | | | | | | |
| 6 | 90 | 197 | 32 | 381 | 139 | 0.2 | 1.7 | 0.7 | 181 | 199 | 186 |
| 7 | 90 | 295 | 44 | 525 | 191 | 0.1 | 1.6 | 0.6 | 272 | 298 | 279 |
| 8 | 90 | 394 | 57 | 673 | 245 | 0.1 | 1.5 | 0.6 | 363 | 398 | 372 |
| 6 | 100 | 250 | 35 | 418 | 152 | 0.1 | 1.5 | 0.6 | 254 | 279 | 261 |
| 7 | 100 | 375 | 48 | 574 | 209 | 0.1 | 1.4 | 0.5 | 381 | 418 | 391 |
| 8 | 100 | 500 | 62 | 734 | 267 | 0.1 | 1.3 | 0.5 | 508 | 558 | 522 |
| 6 | 110 | 315 | 37 | 444 | 162 | 0.1 | 1.3 | 0.5 | 354 | 388 | 363 |
| 7 | 110 | 472 | 52 | 616 | 224 | 0.1 | 1.2 | 0.5 | 530 | 582 | 544 |
| 8 | 110 | 629 | 66 | 784 | 286 | 0.1 | 1.1 | 0.4 | 706 | 775 | 725 |
| 6 | 125 | 438 | 42 | 505 | 184 | 0.1 | 1.0 | 0.4 | 571 | 627 | 586 |
| 7 | 125 | 658 | 59 | 700 | 255 | 0.1 | 1.0 | 0.4 | 858 | 941 | 881 |
| 8 | 125 | 876 | 75 | 891 | 325 | 0.1 | 0.9 | 0.4 | 1142 | 1253 | 1172 |

¹ Production rates are based on a consensus of replies to a user survey.

Light Rust, Millscale or Loose Paint

Hard Coating

High Profile Range

SSPC-SP 6

Tables 1133

RCC , RCP and PR

| Operating Conditions | | Median Production Rate ft ² /hr | Consumption Rate lbs/hr | | | Consumption Rate lbs/ft ² | | | Production Rate ft ² /hr of Blasting ¹ | | |
|----------------------|----------------|--|-------------------------|--------|---------|--------------------------------------|--------|---------|--|--------|---------|
| Nozzle Size | Pressure (psi) | | Steel Iron | Garnet | Alumina | Steel Iron | Garnet | Alumina | Steel Iron | Garnet | Alumina |
| | | 1141 | RCC With Recycling | | | | | | | | |
| 6 | 90 | 788 | 32 | 381 | 139 | 0.0 | 0.4 | 0.2 | 725 | 796 | 744 |
| 7 | 90 | 1181 | 44 | 525 | 191 | 0.0 | 0.4 | 0.2 | 1087 | 1193 | 1116 |
| 8 | 90 | 1574 | 57 | 673 | 245 | 0.0 | 0.4 | 0.1 | 1449 | 1589 | 1487 |
| 6 | 100 | 1000 | 35 | 418 | 152 | 0.0 | 0.4 | 0.1 | 1017 | 1115 | 1043 |
| 7 | 100 | 1500 | 48 | 574 | 209 | 0.0 | 0.3 | 0.1 | 1525 | 1673 | 1565 |
| 8 | 100 | 2000 | 62 | 734 | 267 | 0.0 | 0.3 | 0.1 | 2033 | 2231 | 2087 |
| 6 | 110 | 1258 | 37 | 444 | 162 | 0.0 | 0.3 | 0.1 | 1413 | 1550 | 1450 |
| 7 | 110 | 1888 | 52 | 616 | 224 | 0.0 | 0.3 | 0.1 | 2120 | 2326 | 2176 |
| 8 | 110 | 2518 | 66 | 784 | 286 | 0.0 | 0.3 | 0.1 | 2828 | 3102 | 2902 |
| 6 | 125 | 1753 | 42 | 505 | 184 | 0.0 | 0.3 | 0.1 | 2286 | 2507 | 2346 |
| 7 | 125 | 2629 | 59 | 700 | 255 | 0.0 | 0.2 | 0.1 | 3428 | 3761 | 3518 |
| 8 | 125 | 3507 | 75 | 891 | 325 | 0.0 | 0.2 | 0.1 | 4572 | 5016 | 4693 |

¹ Production rates are based on a consensus of replies to a user survey.

Light Rust, Millscale or Loose Paint

Tables 1141

Hard Coating

Low Profile Range

SSPC-SP 7

RCC , RCP and PR

| Operating Conditions | | Median Production Rate ft ² /hr | Consumption Rate lbs/hr | | | Consumption Rate lbs/ft ² | | | Production Rate ft ² /hr of Blasting ¹ | | |
|----------------------|----------------|--|-------------------------|--------|---------|--------------------------------------|--------|---------|--|--------|---------|
| Nozzle Size | Pressure (psi) | | Steel Iron | Garnet | Alumina | Steel Iron | Garnet | Alumina | Steel Iron | Garnet | Alumina |
| | | 1211 | RCC With Recycling | | | | | | | | |
| 6 | 90 | 390 | 32 | 381 | 139 | 0.1 | 0.9 | 0.3 | 359 | 394 | 368 |
| 7 | 90 | 566 | 44 | 525 | 191 | 0.1 | 0.8 | 0.3 | 521 | 572 | 535 |
| 8 | 90 | 779 | 57 | 673 | 245 | 0.1 | 0.8 | 0.3 | 717 | 787 | 736 |
| 6 | 100 | 495 | 35 | 418 | 152 | 0.1 | 0.8 | 0.3 | 503 | 552 | 517 |
| 7 | 100 | 720 | 48 | 574 | 209 | 0.1 | 0.7 | 0.3 | 732 | 803 | 751 |
| 8 | 100 | 990 | 62 | 734 | 267 | 0.1 | 0.7 | 0.3 | 1007 | 1104 | 1033 |
| 6 | 110 | 623 | 37 | 444 | 162 | 0.1 | 0.6 | 0.2 | 700 | 768 | 718 |
| 7 | 110 | 908 | 52 | 616 | 224 | 0.1 | 0.6 | 0.2 | 1020 | 1119 | 1047 |
| 8 | 110 | 1246 | 66 | 784 | 286 | 0.1 | 0.6 | 0.2 | 1399 | 1535 | 1436 |
| 6 | 125 | 866 | 42 | 505 | 184 | 0.0 | 0.5 | 0.2 | 1129 | 1239 | 1159 |
| 7 | 125 | 1261 | 59 | 700 | 255 | 0.0 | 0.5 | 0.2 | 1644 | 1804 | 1687 |
| 8 | 125 | 1736 | 75 | 891 | 325 | 0.0 | 0.5 | 0.2 | 2263 | 2483 | 2323 |

¹ Production rates are based on a consensus of replies to a user survey.

Light Rust, Millscale or Loose Paint

Tables 1211

Soft Coating

Low Profile Range

SSPC-SP 5

RCC , RCP and PR

| Operating Conditions | | Median Production Rate ft ² /hr | Consumption Rate lbs/hr | | | Consumption Rate lbs/ft ² | | | Production Rate ft ² /hr of Blasting ¹ | | |
|----------------------|----------------|--|-------------------------|--------|---------|--------------------------------------|--------|---------|--|--------|---------|
| Nozzle Size | Pressure (psi) | | Steel Iron | Garnet | Alumina | Steel Iron | Garnet | Alumina | Steel Iron | Garnet | Alumina |
| | | 1212 | RCC With Recycling | | | | | | | | |
| 6 | 90 | 260 | 32 | 381 | 139 | 0.1 | 1.3 | 0.5 | 239 | 263 | 246 |
| 7 | 90 | 377 | 44 | 525 | 191 | 0.1 | 1.2 | 0.5 | 347 | 381 | 356 |
| 8 | 90 | 520 | 57 | 673 | 245 | 0.1 | 1.2 | 0.5 | 479 | 525 | 491 |
| 6 | 100 | 330 | 35 | 418 | 152 | 0.1 | 1.1 | 0.4 | 336 | 368 | 344 |
| 7 | 100 | 480 | 48 | 574 | 209 | 0.1 | 1.1 | 0.4 | 488 | 535 | 501 |
| 8 | 100 | 660 | 62 | 734 | 267 | 0.1 | 1.0 | 0.4 | 671 | 736 | 689 |
| 6 | 110 | 415 | 37 | 444 | 162 | 0.1 | 1.0 | 0.4 | 466 | 511 | 478 |
| 7 | 110 | 605 | 52 | 616 | 224 | 0.1 | 0.9 | 0.4 | 679 | 745 | 697 |
| 8 | 110 | 831 | 66 | 784 | 286 | 0.1 | 0.8 | 0.3 | 933 | 1024 | 958 |
| 6 | 125 | 578 | 42 | 505 | 184 | 0.1 | 0.8 | 0.3 | 754 | 827 | 773 |
| 7 | 125 | 841 | 59 | 700 | 255 | 0.1 | 0.7 | 0.3 | 1097 | 1203 | 1125 |
| 8 | 125 | 1157 | 75 | 891 | 325 | 0.1 | 0.7 | 0.3 | 1509 | 1655 | 1548 |

¹ Production rates are based on a consensus of replies to a user survey.

Light Rust, Millscale or Loose Paint

Tables 1212

Soft Coating

Medium Profile Range

SSPC-SP 5

RCC , RCP and PR

| Operating Conditions | | Median Production Rate ft ² /hr | Consumption Rate lbs/hr | | | Consumption Rate lbs/ft ² | | | Production Rate ft ² /hr of Blasting ¹ | | |
|----------------------|----------------|--|-------------------------|--------|---------|--------------------------------------|--------|---------|--|--------|---------|
| Nozzle Size | Pressure (psi) | | Steel Iron | Garnet | Alumina | Steel Iron | Garnet | Alumina | Steel Iron | Garnet | Alumina |
| | | 1213 | RCC With Recycling | | | | | | | | |
| 6 | 90 | 130 | 32 | 381 | 139 | 0.2 | 2.6 | 1.0 | 120 | 131 | 123 |
| 7 | 90 | 189 | 44 | 525 | 191 | 0.2 | 2.5 | 1.0 | 174 | 191 | 179 |
| 8 | 90 | 260 | 57 | 673 | 245 | 0.2 | 2.3 | 0.9 | 239 | 263 | 246 |
| 6 | 100 | 165 | 35 | 418 | 152 | 0.2 | 2.3 | 0.9 | 168 | 184 | 172 |
| 7 | 100 | 240 | 48 | 574 | 209 | 0.2 | 2.1 | 0.8 | 244 | 268 | 250 |
| 8 | 100 | 330 | 62 | 734 | 267 | 0.2 | 2.0 | 0.8 | 336 | 368 | 344 |
| 6 | 110 | 208 | 37 | 444 | 162 | 0.2 | 1.9 | 0.7 | 234 | 256 | 240 |
| 7 | 110 | 303 | 52 | 616 | 224 | 0.2 | 1.8 | 0.7 | 340 | 373 | 349 |
| 8 | 110 | 415 | 66 | 784 | 286 | 0.2 | 1.7 | 0.7 | 466 | 511 | 478 |
| 6 | 125 | 289 | 42 | 505 | 184 | 0.1 | 1.6 | 0.6 | 377 | 413 | 387 |
| 7 | 125 | 420 | 59 | 700 | 255 | 0.1 | 1.5 | 0.6 | 548 | 601 | 562 |
| 8 | 125 | 579 | 75 | 891 | 325 | 0.1 | 1.4 | 0.5 | 755 | 828 | 775 |

¹ Production rates are based on a consensus of replies to a user survey.

Light Rust, Millscale or Loose Paint

Tables 1213

Soft Coating

High Profile Range

SSPC-SP 5

RCC , RCP and PR

| Operating Conditions | | Median Production Rate ft ² /hr | Consumption Rate lbs/hr | | | Consumption Rate lbs/ft ² | | | Production Rate ft ² /hr of Blasting ¹ | | |
|----------------------|----------------|--|-------------------------|--------|---------|--------------------------------------|--------|---------|--|--------|---------|
| Nozzle Size | Pressure (psi) | | Steel Iron | Garnet | Alumina | Steel Iron | Garnet | Alumina | Steel Iron | Garnet | Alumina |
| | | 1221 | RCC With Recycling | | | | | | | | |
| 6 | 90 | 425 | 32 | 381 | 139 | 0.1 | 0.8 | 0.3 | 391 | 429 | 401 |
| 7 | 90 | 621 | 44 | 525 | 191 | 0.1 | 0.8 | 0.3 | 572 | 627 | 587 |
| 8 | 90 | 850 | 57 | 673 | 245 | 0.1 | 0.7 | 0.3 | 782 | 858 | 803 |
| 6 | 100 | 540 | 35 | 418 | 152 | 0.1 | 0.7 | 0.3 | 549 | 602 | 563 |
| 7 | 100 | 788 | 48 | 574 | 209 | 0.1 | 0.7 | 0.3 | 801 | 879 | 822 |
| 8 | 100 | 1080 | 62 | 734 | 267 | 0.1 | 0.6 | 0.2 | 1098 | 1205 | 1127 |
| 6 | 110 | 680 | 37 | 444 | 162 | 0.1 | 0.6 | 0.2 | 764 | 838 | 784 |
| 7 | 110 | 990 | 52 | 616 | 224 | 0.1 | 0.6 | 0.2 | 1112 | 1220 | 1141 |
| 8 | 110 | 1360 | 66 | 784 | 286 | 0.0 | 0.5 | 0.2 | 1527 | 1676 | 1568 |
| 6 | 125 | 946 | 42 | 505 | 184 | 0.0 | 0.5 | 0.2 | 1233 | 1353 | 1266 |
| 7 | 125 | 1379 | 59 | 700 | 255 | 0.0 | 0.5 | 0.2 | 1798 | 1973 | 1845 |
| 8 | 125 | 1892 | 75 | 891 | 325 | 0.0 | 0.4 | 0.2 | 2467 | 2706 | 2532 |

¹ Production rates are based on a consensus of replies to a user survey.

Light Rust, Millscale or Loose Paint

Tables 1221

Soft Coating

Low Profile Range

SSPC-SP 10

RCC , RCP and PR

| Operating Conditions | | Median Production Rate ft ² /hr | Consumption Rate lbs/hr | | | Consumption Rate lbs/ft ² | | | Production Rate ft ² /hr of Blasting ¹ | | |
|----------------------|----------------|--|-------------------------|--------|---------|--------------------------------------|--------|---------|--|--------|---------|
| Nozzle Size | Pressure (psi) | | Steel Iron | Garnet | Alumina | Steel Iron | Garnet | Alumina | Steel Iron | Garnet | Alumina |
| | | 1222 | RCC With Recycling | | | | | | | | |
| 6 | 90 | 283 | 32 | 381 | 139 | 0.1 | 1.2 | 0.5 | 260 | 286 | 267 |
| 7 | 90 | 414 | 44 | 525 | 191 | 0.1 | 1.1 | 0.4 | 381 | 418 | 391 |
| 8 | 90 | 567 | 57 | 673 | 245 | 0.1 | 1.1 | 0.4 | 522 | 573 | 536 |
| 6 | 100 | 360 | 35 | 418 | 152 | 0.1 | 1.0 | 0.4 | 366 | 402 | 376 |
| 7 | 100 | 525 | 48 | 574 | 209 | 0.1 | 1.0 | 0.4 | 534 | 586 | 548 |
| 8 | 100 | 720 | 62 | 734 | 267 | 0.1 | 0.9 | 0.4 | 732 | 803 | 751 |
| 6 | 110 | 453 | 37 | 444 | 162 | 0.1 | 0.9 | 0.3 | 509 | 558 | 522 |
| 7 | 110 | 660 | 52 | 616 | 224 | 0.1 | 0.8 | 0.3 | 741 | 813 | 761 |
| 8 | 110 | 907 | 66 | 784 | 286 | 0.1 | 0.8 | 0.3 | 1019 | 1117 | 1045 |
| 6 | 125 | 631 | 42 | 505 | 184 | 0.1 | 0.7 | 0.3 | 823 | 903 | 844 |
| 7 | 125 | 919 | 59 | 700 | 255 | 0.1 | 0.7 | 0.3 | 1198 | 1315 | 1230 |
| 8 | 125 | 1261 | 75 | 891 | 325 | 0.1 | 0.6 | 0.2 | 1644 | 1804 | 1687 |

¹ Production rates are based on a consensus of replies to a user survey.

Light Rust, Millscale or Loose Paint

Tables 1222

Soft Coating

Medium Profile Range

SSPC-SP 10

RCC , RCP and PR

| Operating Conditions | | Median Production Rate ft ² /hr | Consumption Rate lbs/hr | | | Consumption Rate lbs/ft ² | | | Production Rate ft ² /hr of Blasting ¹ | | |
|----------------------|----------------|--|-------------------------|--------|---------|--------------------------------------|--------|---------|--|--------|---------|
| Nozzle Size | Pressure (psi) | | Steel Iron | Garnet | Alumina | Steel Iron | Garnet | Alumina | Steel Iron | Garnet | Alumina |
| 1223 | | RCC With Recycling | | | | | | | | | |
| 6 | 90 | 142 | 32 | 381 | 139 | 0.2 | 2.4 | 0.9 | 131 | 143 | 134 |
| 7 | 90 | 207 | 44 | 525 | 191 | 0.2 | 2.3 | 0.9 | 191 | 209 | 196 |
| 8 | 90 | 283 | 57 | 673 | 245 | 0.2 | 2.1 | 0.8 | 260 | 286 | 267 |
| 6 | 100 | 180 | 35 | 418 | 152 | 0.2 | 2.1 | 0.8 | 183 | 201 | 188 |
| 7 | 100 | 263 | 48 | 574 | 209 | 0.2 | 2.0 | 0.8 | 267 | 293 | 274 |
| 8 | 100 | 360 | 62 | 734 | 267 | 0.2 | 1.8 | 0.7 | 366 | 402 | 376 |
| 6 | 110 | 227 | 37 | 444 | 162 | 0.2 | 1.8 | 0.7 | 255 | 280 | 262 |
| 7 | 110 | 330 | 52 | 616 | 224 | 0.2 | 1.7 | 0.7 | 371 | 407 | 380 |
| 8 | 110 | 453 | 66 | 784 | 286 | 0.1 | 1.6 | 0.6 | 509 | 558 | 522 |
| 6 | 125 | 315 | 42 | 505 | 184 | 0.1 | 1.4 | 0.6 | 411 | 451 | 422 |
| 7 | 125 | 460 | 59 | 700 | 255 | 0.1 | 1.4 | 0.5 | 600 | 658 | 616 |
| 8 | 125 | 631 | 75 | 891 | 325 | 0.1 | 1.3 | 0.5 | 823 | 903 | 844 |

¹ Production rates are based on a consensus of replies to a user survey.

Light Rust, Millscale or Loose Paint

Tables 1223

Soft Coating

High Profile Range

SSPC-SP 10

RCC , RCP and PR

| Operating Conditions | | Median Production Rate ft ² /hr | Consumption Rate lbs/hr | | | Consumption Rate lbs/ft ² | | | Production Rate ft ² /hr of Blasting ¹ | | |
|----------------------|----------------|--|-------------------------|--------|---------|--------------------------------------|--------|---------|--|--------|---------|
| Nozzle Size | Pressure (psi) | | Steel Iron | Garnet | Alumina | Steel Iron | Garnet | Alumina | Steel Iron | Garnet | Alumina |
| | | 1231 | RCC With Recycling | | | | | | | | |
| 6 | 90 | 885 | 32 | 381 | 139 | 0.0 | 0.4 | 0.2 | 815 | 894 | 836 |
| 7 | 90 | 1329 | 44 | 525 | 191 | 0.0 | 0.4 | 0.1 | 1223 | 1342 | 1255 |
| 8 | 90 | 1772 | 57 | 673 | 245 | 0.0 | 0.3 | 0.1 | 1631 | 1789 | 1674 |
| 6 | 100 | 1125 | 35 | 418 | 152 | 0.0 | 0.3 | 0.1 | 1144 | 1255 | 1174 |
| 7 | 100 | 1688 | 48 | 574 | 209 | 0.0 | 0.3 | 0.1 | 1716 | 1883 | 1761 |
| 8 | 100 | 2250 | 62 | 734 | 267 | 0.0 | 0.3 | 0.1 | 2288 | 2510 | 2348 |
| 6 | 110 | 1417 | 37 | 444 | 162 | 0.0 | 0.3 | 0.1 | 1591 | 1746 | 1633 |
| 7 | 110 | 2123 | 52 | 616 | 224 | 0.0 | 0.3 | 0.1 | 2384 | 2616 | 2447 |
| 8 | 110 | 2831 | 66 | 784 | 286 | 0.0 | 0.2 | 0.1 | 3179 | 3488 | 3263 |
| 6 | 125 | 1972 | 42 | 505 | 184 | 0.0 | 0.2 | 0.1 | 2571 | 2821 | 2639 |
| 7 | 125 | 2959 | 59 | 700 | 255 | 0.0 | 0.2 | 0.1 | 3858 | 4233 | 3960 |
| 8 | 125 | 3943 | 75 | 891 | 325 | 0.0 | 0.2 | 0.1 | 5141 | 5640 | 5276 |

¹ Production rates are based on a consensus of replies to a user survey.

Light Rust, Millscale or Loose Paint

Tables 1231

Soft Coating

Low Profile Range

SSPC-SP 6

RCC , RCP and PR

| Operating Conditions | | Median Production Rate ft ² /hr | Consumption Rate lbs/hr | | | Consumption Rate lbs/ft ² | | | Production Rate ft ² /hr of Blasting ¹ | | |
|----------------------|----------------|--|-------------------------|--------|---------|--------------------------------------|--------|---------|--|--------|---------|
| Nozzle Size | Pressure (psi) | | Steel Iron | Garnet | Alumina | Steel Iron | Garnet | Alumina | Steel Iron | Garnet | Alumina |
| | | 1232 | RCC With Recycling | | | | | | | | |
| 6 | 90 | 590 | 32 | 381 | 139 | 0.1 | 0.6 | 0.2 | 543 | 596 | 557 |
| 7 | 90 | 886 | 44 | 525 | 191 | 0.0 | 0.5 | 0.2 | 815 | 895 | 837 |
| 8 | 90 | 1181 | 57 | 673 | 245 | 0.0 | 0.5 | 0.2 | 1087 | 1193 | 1116 |
| 6 | 100 | 750 | 35 | 418 | 152 | 0.0 | 0.5 | 0.2 | 763 | 837 | 783 |
| 7 | 100 | 1125 | 48 | 574 | 209 | 0.0 | 0.5 | 0.2 | 1144 | 1255 | 1174 |
| 8 | 100 | 1500 | 62 | 734 | 267 | 0.0 | 0.4 | 0.2 | 1525 | 1673 | 1565 |
| 6 | 110 | 945 | 37 | 444 | 162 | 0.0 | 0.4 | 0.2 | 1061 | 1164 | 1089 |
| 7 | 110 | 1415 | 52 | 616 | 224 | 0.0 | 0.4 | 0.2 | 1589 | 1743 | 1631 |
| 8 | 110 | 1887 | 66 | 784 | 286 | 0.0 | 0.4 | 0.1 | 2119 | 2325 | 2175 |
| 6 | 125 | 1314 | 42 | 505 | 184 | 0.0 | 0.3 | 0.1 | 1713 | 1880 | 1758 |
| 7 | 125 | 1973 | 59 | 700 | 255 | 0.0 | 0.3 | 0.1 | 2572 | 2822 | 2640 |
| 8 | 125 | 2629 | 75 | 891 | 325 | 0.0 | 0.3 | 0.1 | 3428 | 3761 | 3518 |

¹ Production rates are based on a consensus of replies to a user survey.

Light Rust, Millscale or Loose Paint

Tables 1232

Soft Coating

Medium Profile Range

SSPC-SP 6

RCC , RCP and PR

| Operating Conditions | | Median Production Rate ft ² /hr | Consumption Rate lbs/hr | | | Consumption Rate lbs/ft ² | | | Production Rate ft ² /hr of Blasting ¹ | | |
|----------------------|----------------|--|-------------------------|--------|---------|--------------------------------------|--------|---------|--|--------|---------|
| Nozzle Size | Pressure (psi) | | Steel Iron | Garnet | Alumina | Steel Iron | Garnet | Alumina | Steel Iron | Garnet | Alumina |
| | | 1233 | RCC With Recycling | | | | | | | | |
| 6 | 90 | 295 | 32 | 381 | 139 | 0.1 | 1.2 | 0.5 | 272 | 298 | 279 |
| 7 | 90 | 443 | 44 | 525 | 191 | 0.1 | 1.1 | 0.4 | 408 | 447 | 418 |
| 8 | 90 | 591 | 57 | 673 | 245 | 0.1 | 1.0 | 0.4 | 544 | 597 | 558 |
| 6 | 100 | 375 | 35 | 418 | 152 | 0.1 | 1.0 | 0.4 | 381 | 418 | 391 |
| 7 | 100 | 563 | 48 | 574 | 209 | 0.1 | 0.9 | 0.4 | 572 | 628 | 587 |
| 8 | 100 | 750 | 62 | 734 | 267 | 0.1 | 0.9 | 0.3 | 763 | 837 | 783 |
| 6 | 110 | 472 | 37 | 444 | 162 | 0.1 | 0.8 | 0.3 | 530 | 582 | 544 |
| 7 | 110 | 708 | 52 | 616 | 224 | 0.1 | 0.8 | 0.3 | 795 | 872 | 816 |
| 8 | 110 | 944 | 66 | 784 | 286 | 0.1 | 0.7 | 0.3 | 1060 | 1163 | 1088 |
| 6 | 125 | 657 | 42 | 505 | 184 | 0.1 | 0.7 | 0.3 | 857 | 940 | 879 |
| 7 | 125 | 986 | 59 | 700 | 255 | 0.1 | 0.6 | 0.2 | 1286 | 1410 | 1319 |
| 8 | 125 | 1314 | 75 | 891 | 325 | 0.1 | 0.6 | 0.2 | 1713 | 1880 | 1758 |

¹ Production rates are based on a consensus of replies to a user survey.

Light Rust, Millscale or Loose Paint

Tables 1233

Soft Coating

High Profile Range

SSPC-SP 6

RCC , RCP and PR

| Operating Conditions | | Median Production Rate ft ² /hr | Consumption Rate lbs/hr | | | Consumption Rate lbs/ft ² | | | Production Rate ft ² /hr of Blasting ¹ | | |
|----------------------|----------------|--|-------------------------|--------|---------|--------------------------------------|--------|---------|--|--------|---------|
| Nozzle Size | Pressure (psi) | | Steel Iron | Garnet | Alumina | Steel Iron | Garnet | Alumina | Steel Iron | Garnet | Alumina |
| | | 1241 | RCC With Recycling | | | | | | | | |
| 6 | 90 | 788 | 32 | 381 | 139 | 0.0 | 0.4 | 0.2 | 725 | 796 | 744 |
| 7 | 90 | 1181 | 44 | 525 | 191 | 0.0 | 0.4 | 0.2 | 1087 | 1193 | 1116 |
| 8 | 90 | 1574 | 57 | 673 | 245 | 0.0 | 0.4 | 0.1 | 1449 | 1589 | 1487 |
| 6 | 100 | 1000 | 35 | 418 | 152 | 0.0 | 0.4 | 0.1 | 1017 | 1115 | 1043 |
| 7 | 100 | 1500 | 48 | 574 | 209 | 0.0 | 0.3 | 0.1 | 1525 | 1673 | 1565 |
| 8 | 100 | 2000 | 62 | 734 | 267 | 0.0 | 0.3 | 0.1 | 2033 | 2231 | 2087 |
| 6 | 110 | 1258 | 37 | 444 | 162 | 0.0 | 0.3 | 0.1 | 1413 | 1550 | 1450 |
| 7 | 110 | 1888 | 52 | 616 | 224 | 0.0 | 0.3 | 0.1 | 2120 | 2326 | 2176 |
| 8 | 110 | 2518 | 66 | 784 | 286 | 0.0 | 0.3 | 0.1 | 2828 | 3102 | 2902 |
| 6 | 125 | 1753 | 42 | 505 | 184 | 0.0 | 0.3 | 0.1 | 2286 | 2507 | 2346 |
| 7 | 125 | 2629 | 59 | 700 | 255 | 0.0 | 0.2 | 0.1 | 3428 | 3761 | 3518 |
| 8 | 125 | 3507 | 75 | 891 | 325 | 0.0 | 0.2 | 0.1 | 4572 | 5016 | 4693 |

¹ Production rates are based on a consensus of replies to a user survey.

Light Rust, Millscale or Loose Paint

Tables 1241

Soft Coating

Low Profile Range

SSPC-SP 7

RCC , RCP and PR

| Operating Conditions | | Median Production Rate ft ² /hr | Consumption Rate lbs/hr | | | Consumption Rate lbs/ft ² | | | Production Rate ft ² /hr of Blasting ¹ | | |
|----------------------|----------------|--|-------------------------|--------|---------|--------------------------------------|--------|---------|--|--------|---------|
| Nozzle Size | Pressure (psi) | | Steel Iron | Garnet | Alumina | Steel Iron | Garnet | Alumina | Steel Iron | Garnet | Alumina |
| | | 2111 | RCC With Recycling | | | | | | | | |
| 6 | 90 | 213 | 32 | 381 | 139 | 0.1 | 1.6 | 0.6 | 196 | 215 | 201 |
| 7 | 90 | 307 | 44 | 525 | 191 | 0.1 | 1.5 | 0.6 | 283 | 310 | 290 |
| 8 | 90 | 426 | 57 | 673 | 245 | 0.1 | 1.4 | 0.6 | 392 | 430 | 402 |
| 6 | 100 | 270 | 35 | 418 | 152 | 0.1 | 1.4 | 0.5 | 275 | 301 | 282 |
| 7 | 100 | 390 | 48 | 574 | 209 | 0.1 | 1.3 | 0.5 | 397 | 435 | 407 |
| 8 | 100 | 540 | 62 | 734 | 267 | 0.1 | 1.2 | 0.5 | 549 | 602 | 563 |
| 6 | 110 | 340 | 37 | 444 | 162 | 0.1 | 1.2 | 0.5 | 382 | 419 | 392 |
| 7 | 110 | 491 | 52 | 616 | 224 | 0.1 | 1.1 | 0.4 | 551 | 605 | 566 |
| 8 | 110 | 679 | 66 | 784 | 286 | 0.1 | 1.0 | 0.4 | 763 | 837 | 783 |
| 6 | 125 | 474 | 42 | 505 | 184 | 0.1 | 1.0 | 0.4 | 618 | 678 | 634 |
| 7 | 125 | 684 | 59 | 700 | 255 | 0.1 | 0.9 | 0.4 | 892 | 978 | 915 |
| 8 | 125 | 947 | 75 | 891 | 325 | 0.1 | 0.8 | 0.3 | 1235 | 1355 | 1267 |

¹ Production rates are based on a consensus of replies to a user survey.

Tight Rust or Millscale

Tables 2111

Hard Coating

Low Profile Range

SSPC-SP 5

RCC , RCP and PR

| Operating Conditions | | Median Production Rate ft ² /hr | Consumption Rate lbs/hr | | | Consumption Rate lbs/ft ² | | | Production Rate ft ² /hr of Blasting ¹ | | |
|----------------------|----------------|--|-------------------------|--------|---------|--------------------------------------|--------|---------|--|--------|---------|
| Nozzle Size | Pressure (psi) | | Steel Iron | Garnet | Alumina | Steel Iron | Garnet | Alumina | Steel Iron | Garnet | Alumina |
| | | 2112 | RCC With Recycling | | | | | | | | |
| 6 | 90 | 142 | 32 | 381 | 139 | 0.2 | 2.4 | 0.9 | 131 | 143 | 134 |
| 7 | 90 | 204 | 44 | 525 | 191 | 0.2 | 2.3 | 0.9 | 188 | 206 | 193 |
| 8 | 90 | 284 | 57 | 673 | 245 | 0.2 | 2.1 | 0.8 | 261 | 287 | 268 |
| 6 | 100 | 180 | 35 | 418 | 152 | 0.2 | 2.1 | 0.8 | 183 | 201 | 188 |
| 7 | 100 | 260 | 48 | 574 | 209 | 0.2 | 2.0 | 0.8 | 264 | 290 | 271 |
| 8 | 100 | 360 | 62 | 734 | 267 | 0.2 | 1.8 | 0.7 | 366 | 402 | 376 |
| 6 | 110 | 226 | 37 | 444 | 162 | 0.2 | 1.8 | 0.7 | 254 | 278 | 260 |
| 7 | 110 | 328 | 52 | 616 | 224 | 0.2 | 1.7 | 0.7 | 368 | 404 | 378 |
| 8 | 110 | 453 | 66 | 784 | 286 | 0.1 | 1.6 | 0.6 | 509 | 558 | 522 |
| 6 | 125 | 316 | 42 | 505 | 184 | 0.1 | 1.4 | 0.6 | 412 | 452 | 423 |
| 7 | 125 | 456 | 59 | 700 | 255 | 0.1 | 1.4 | 0.5 | 595 | 652 | 610 |
| 8 | 125 | 631 | 75 | 891 | 325 | 0.1 | 1.3 | 0.5 | 823 | 903 | 844 |

¹ Production rates are based on a consensus of replies to a user survey.

Tight Rust or Millscale

Hard Coating

Medium Profile Range

SSPC-SP 5

Tables 2112

RCC , RCP and PR

| Operating Conditions | | Median Production Rate ft ² /hr | Consumption Rate lbs/hr | | | Consumption Rate lbs/ft ² | | | Production Rate ft ² /hr of Blasting ¹ | | |
|----------------------|----------------|--|---------------------------|--------|---------|--------------------------------------|--------|---------|--|--------|---------|
| Nozzle Size | Pressure (psi) | | Steel Iron | Garnet | Alumina | Steel Iron | Garnet | Alumina | Steel Iron | Garnet | Alumina |
| | | 2113 | RCC With Recycling | | | | | | | | |
| 6 | 90 | 71 | 32 | 381 | 139 | 0.4 | 4.8 | 1.9 | 65 | 72 | 67 |
| 7 | 90 | 102 | 44 | 525 | 191 | 0.4 | 4.6 | 1.8 | 94 | 103 | 96 |
| 8 | 90 | 142 | 57 | 673 | 245 | 0.4 | 4.2 | 1.7 | 131 | 143 | 134 |
| 6 | 100 | 90 | 35 | 418 | 152 | 0.4 | 4.2 | 1.6 | 92 | 100 | 94 |
| 7 | 100 | 130 | 48 | 574 | 209 | 0.4 | 4.0 | 1.5 | 132 | 145 | 136 |
| 8 | 100 | 180 | 62 | 734 | 267 | 0.3 | 3.7 | 1.4 | 183 | 201 | 188 |
| 6 | 110 | 113 | 37 | 444 | 162 | 0.3 | 3.5 | 1.4 | 127 | 139 | 130 |
| 7 | 110 | 164 | 52 | 616 | 224 | 0.3 | 3.4 | 1.3 | 184 | 202 | 189 |
| 8 | 110 | 226 | 66 | 784 | 286 | 0.3 | 3.1 | 1.2 | 254 | 278 | 260 |
| 6 | 125 | 158 | 42 | 505 | 184 | 0.3 | 2.9 | 1.1 | 206 | 226 | 211 |
| 7 | 125 | 228 | 59 | 700 | 255 | 0.3 | 2.8 | 1.1 | 297 | 326 | 305 |
| 8 | 125 | 316 | 75 | 891 | 325 | 0.2 | 2.5 | 1.0 | 412 | 452 | 423 |

¹ Production rates are based on a consensus of replies to a user survey.

Tight Rust or Millscale

Hard Coating

High Profile Range

SSPC-SP 5

Tables **2113**

RCC , RCP and PR

| Operating Conditions | | Median Production Rate ft ² /hr | Consumption Rate lbs/hr | | | Consumption Rate lbs/ft ² | | | Production Rate ft ² /hr of Blasting ¹ | | |
|----------------------|----------------|--|-------------------------|--------|---------|--------------------------------------|--------|---------|--|--------|---------|
| Nozzle Size | Pressure (psi) | | Steel Iron | Garnet | Alumina | Steel Iron | Garnet | Alumina | Steel Iron | Garnet | Alumina |
| | | 2121 | RCC With Recycling | | | | | | | | |
| 6 | 90 | 236 | 32 | 381 | 139 | 0.1 | 1.4 | 0.6 | 217 | 238 | 223 |
| 7 | 90 | 330 | 44 | 525 | 191 | 0.1 | 1.4 | 0.6 | 304 | 333 | 312 |
| 8 | 90 | 461 | 57 | 673 | 245 | 0.1 | 1.3 | 0.5 | 424 | 465 | 435 |
| 6 | 100 | 300 | 35 | 418 | 152 | 0.1 | 1.2 | 0.5 | 305 | 335 | 313 |
| 7 | 100 | 420 | 48 | 574 | 209 | 0.1 | 1.2 | 0.5 | 427 | 468 | 438 |
| 8 | 100 | 585 | 62 | 734 | 267 | 0.1 | 1.1 | 0.4 | 595 | 652 | 610 |
| 6 | 110 | 377 | 37 | 444 | 162 | 0.1 | 1.1 | 0.4 | 423 | 464 | 435 |
| 7 | 110 | 529 | 52 | 616 | 224 | 0.1 | 1.0 | 0.4 | 594 | 652 | 610 |
| 8 | 110 | 736 | 66 | 784 | 286 | 0.1 | 1.0 | 0.4 | 827 | 907 | 848 |
| 6 | 125 | 527 | 42 | 505 | 184 | 0.1 | 0.9 | 0.3 | 687 | 754 | 705 |
| 7 | 125 | 737 | 59 | 700 | 255 | 0.1 | 0.9 | 0.3 | 961 | 1054 | 986 |
| 8 | 125 | 1026 | 75 | 891 | 325 | 0.1 | 0.8 | 0.3 | 1338 | 1468 | 1373 |

¹ Production rates are based on a consensus of replies to a user survey.

Tight Rust or Millscale

Tables 2121

Hard Coating

Low Profile Range

SSPC-SP 10

RCC , RCP and PR

| Operating Conditions | | Median Production Rate ft ² /hr | Consumption Rate lbs/hr | | | Consumption Rate lbs/ft ² | | | Production Rate ft ² /hr of Blasting ¹ | | |
|----------------------|----------------|--|---------------------------|--------|---------|--------------------------------------|--------|---------|--|--------|---------|
| Nozzle Size | Pressure (psi) | | Steel Iron | Garnet | Alumina | Steel Iron | Garnet | Alumina | Steel Iron | Garnet | Alumina |
| | | 2122 | RCC With Recycling | | | | | | | | |
| 6 | 90 | 158 | 32 | 381 | 139 | 0.2 | 2.2 | 0.8 | 145 | 160 | 149 |
| 7 | 90 | 220 | 44 | 525 | 191 | 0.2 | 2.1 | 0.8 | 202 | 222 | 208 |
| 8 | 90 | 307 | 57 | 673 | 245 | 0.2 | 2.0 | 0.8 | 283 | 310 | 290 |
| 6 | 100 | 200 | 35 | 418 | 152 | 0.2 | 1.9 | 0.7 | 203 | 223 | 209 |
| 7 | 100 | 280 | 48 | 574 | 209 | 0.2 | 1.8 | 0.7 | 285 | 312 | 292 |
| 8 | 100 | 390 | 62 | 734 | 267 | 0.2 | 1.7 | 0.7 | 397 | 435 | 407 |
| 6 | 110 | 252 | 37 | 444 | 162 | 0.1 | 1.6 | 0.6 | 283 | 310 | 290 |
| 7 | 110 | 353 | 52 | 616 | 224 | 0.1 | 1.6 | 0.6 | 396 | 435 | 407 |
| 8 | 110 | 491 | 66 | 784 | 286 | 0.1 | 1.4 | 0.6 | 551 | 605 | 566 |
| 6 | 125 | 351 | 42 | 505 | 184 | 0.1 | 1.3 | 0.5 | 458 | 502 | 470 |
| 7 | 125 | 491 | 59 | 700 | 255 | 0.1 | 1.3 | 0.5 | 640 | 702 | 657 |
| 8 | 125 | 684 | 75 | 891 | 325 | 0.1 | 1.2 | 0.5 | 892 | 978 | 915 |

¹ Production rates are based on a consensus of replies to a user survey.

Tight Rust or Millscale

Hard Coating

Medium Profile Range

SSPC-SP 10

Tables 2122

RCC , RCP and PR

| Operating Conditions | | Median Production Rate ft ² /hr | Consumption Rate lbs/hr | | | Consumption Rate lbs/ft ² | | | Production Rate ft ² /hr of Blasting ¹ | | |
|----------------------|----------------|--|---------------------------|--------|---------|--------------------------------------|--------|---------|--|--------|---------|
| Nozzle Size | Pressure (psi) | | Steel Iron | Garnet | Alumina | Steel Iron | Garnet | Alumina | Steel Iron | Garnet | Alumina |
| | | 2123 | RCC With Recycling | | | | | | | | |
| 6 | 90 | 79 | 32 | 381 | 139 | 0.4 | 4.3 | 1.7 | 73 | 80 | 75 |
| 7 | 90 | 110 | 44 | 525 | 191 | 0.4 | 4.3 | 1.7 | 101 | 111 | 104 |
| 8 | 90 | 154 | 57 | 673 | 245 | 0.4 | 3.9 | 1.5 | 142 | 156 | 145 |
| 6 | 100 | 100 | 35 | 418 | 152 | 0.3 | 3.7 | 1.5 | 102 | 112 | 104 |
| 7 | 100 | 140 | 48 | 574 | 209 | 0.3 | 3.7 | 1.4 | 142 | 156 | 146 |
| 8 | 100 | 195 | 62 | 734 | 267 | 0.3 | 3.4 | 1.3 | 198 | 217 | 203 |
| 6 | 110 | 126 | 37 | 444 | 162 | 0.3 | 3.2 | 1.2 | 142 | 155 | 145 |
| 7 | 110 | 176 | 52 | 616 | 224 | 0.3 | 3.1 | 1.2 | 198 | 217 | 203 |
| 8 | 110 | 245 | 66 | 784 | 286 | 0.3 | 2.9 | 1.1 | 275 | 302 | 282 |
| 6 | 125 | 176 | 42 | 505 | 184 | 0.2 | 2.6 | 1.0 | 229 | 252 | 236 |
| 7 | 125 | 246 | 59 | 700 | 255 | 0.2 | 2.6 | 1.0 | 321 | 352 | 329 |
| 8 | 125 | 342 | 75 | 891 | 325 | 0.2 | 2.3 | 0.9 | 446 | 489 | 458 |

¹ Production rates are based on a consensus of replies to a user survey.

Tight Rust or Millscale

Tables **2123**

Hard Coating

High Profile Range

SSPC-SP 10

RCC , RCP and PR

| Operating Conditions | | Median Production Rate ft ² /hr | Consumption Rate lbs/hr | | | Consumption Rate lbs/ft ² | | | Production Rate ft ² /hr of Blasting ¹ | | |
|----------------------|----------------|--|-------------------------|--------|---------|--------------------------------------|--------|---------|--|--------|---------|
| Nozzle Size | Pressure (psi) | | Steel Iron | Garnet | Alumina | Steel Iron | Garnet | Alumina | Steel Iron | Garnet | Alumina |
| | | 2131 | RCC With Recycling | | | | | | | | |
| 6 | 90 | 473 | 32 | 381 | 139 | 0.1 | 0.7 | 0.3 | 435 | 478 | 447 |
| 7 | 90 | 709 | 44 | 525 | 191 | 0.1 | 0.7 | 0.3 | 653 | 716 | 670 |
| 8 | 90 | 945 | 57 | 673 | 245 | 0.1 | 0.6 | 0.2 | 870 | 954 | 893 |
| 6 | 100 | 600 | 35 | 418 | 152 | 0.1 | 0.6 | 0.2 | 610 | 669 | 626 |
| 7 | 100 | 900 | 48 | 574 | 209 | 0.1 | 0.6 | 0.2 | 915 | 1004 | 939 |
| 8 | 100 | 1200 | 62 | 734 | 267 | 0.1 | 0.5 | 0.2 | 1220 | 1338 | 1252 |
| 6 | 110 | 755 | 37 | 444 | 162 | 0.0 | 0.5 | 0.2 | 848 | 930 | 870 |
| 7 | 110 | 1132 | 52 | 616 | 224 | 0.0 | 0.5 | 0.2 | 1271 | 1395 | 1305 |
| 8 | 110 | 1510 | 66 | 784 | 286 | 0.0 | 0.5 | 0.2 | 1696 | 1860 | 1741 |
| 6 | 125 | 1051 | 42 | 505 | 184 | 0.0 | 0.4 | 0.2 | 1370 | 1503 | 1406 |
| 7 | 125 | 1578 | 59 | 700 | 255 | 0.0 | 0.4 | 0.2 | 2057 | 2257 | 2112 |
| 8 | 125 | 2104 | 75 | 891 | 325 | 0.0 | 0.4 | 0.1 | 2743 | 3010 | 2816 |

¹ Production rates are based on a consensus of replies to a user survey.

Tight Rust or Millscale

Tables 2131

Hard Coating

Low Profile Range

SSPC-SP 6

RCC , RCP and PR

| Operating Conditions | | Median Production Rate ft ² /hr | Consumption Rate lbs/hr | | | Consumption Rate lbs/ft ² | | | Production Rate ft ² /hr of Blasting ¹ | | |
|----------------------|----------------|--|-------------------------|--------|---------|--------------------------------------|--------|---------|--|--------|---------|
| Nozzle Size | Pressure (psi) | | Steel Iron | Garnet | Alumina | Steel Iron | Garnet | Alumina | Steel Iron | Garnet | Alumina |
| | | 2132 | RCC With Recycling | | | | | | | | |
| 6 | 90 | 315 | 32 | 381 | 139 | 0.1 | 1.1 | 0.4 | 290 | 318 | 298 |
| 7 | 90 | 473 | 44 | 525 | 191 | 0.1 | 1.0 | 0.4 | 435 | 478 | 447 |
| 8 | 90 | 630 | 57 | 673 | 245 | 0.1 | 1.0 | 0.4 | 580 | 636 | 595 |
| 6 | 100 | 400 | 35 | 418 | 152 | 0.1 | 0.9 | 0.4 | 407 | 446 | 417 |
| 7 | 100 | 600 | 48 | 574 | 209 | 0.1 | 0.9 | 0.3 | 610 | 669 | 626 |
| 8 | 100 | 800 | 62 | 734 | 267 | 0.1 | 0.8 | 0.3 | 813 | 892 | 835 |
| 6 | 110 | 503 | 37 | 444 | 162 | 0.1 | 0.8 | 0.3 | 565 | 620 | 580 |
| 7 | 110 | 755 | 52 | 616 | 224 | 0.1 | 0.7 | 0.3 | 848 | 930 | 870 |
| 8 | 110 | 1007 | 66 | 784 | 286 | 0.1 | 0.7 | 0.3 | 1131 | 1241 | 1161 |
| 6 | 125 | 701 | 42 | 505 | 184 | 0.1 | 0.6 | 0.3 | 914 | 1003 | 938 |
| 7 | 125 | 1052 | 59 | 700 | 255 | 0.1 | 0.6 | 0.2 | 1372 | 1505 | 1408 |
| 8 | 125 | 1403 | 75 | 891 | 325 | 0.1 | 0.6 | 0.2 | 1829 | 2007 | 1877 |

¹ Production rates are based on a consensus of replies to a user survey.

Tight Rust or Millscale

Hard Coating

Medium Profile Range

SSPC-SP 6

Tables 2132

RCC , RCP and PR

| Operating Conditions | | Median Production Rate ft ² /hr | Consumption Rate lbs/hr | | | Consumption Rate lbs/ft ² | | | Production Rate ft ² /hr of Blasting ¹ | | |
|----------------------|----------------|--|-------------------------|--------|---------|--------------------------------------|--------|---------|--|--------|---------|
| Nozzle Size | Pressure (psi) | | Steel Iron | Garnet | Alumina | Steel Iron | Garnet | Alumina | Steel Iron | Garnet | Alumina |
| | | 2133 | RCC With Recycling | | | | | | | | |
| 6 | 90 | 158 | 32 | 381 | 139 | 0.2 | 2.2 | 0.8 | 145 | 160 | 149 |
| 7 | 90 | 236 | 44 | 525 | 191 | 0.2 | 2.0 | 0.8 | 217 | 238 | 223 |
| 8 | 90 | 315 | 57 | 673 | 245 | 0.2 | 1.9 | 0.7 | 290 | 318 | 298 |
| 6 | 100 | 200 | 35 | 418 | 152 | 0.2 | 1.9 | 0.7 | 203 | 223 | 209 |
| 7 | 100 | 300 | 48 | 574 | 209 | 0.2 | 1.7 | 0.7 | 305 | 335 | 313 |
| 8 | 100 | 400 | 62 | 734 | 267 | 0.2 | 1.6 | 0.6 | 407 | 446 | 417 |
| 6 | 110 | 252 | 37 | 444 | 162 | 0.1 | 1.6 | 0.6 | 283 | 310 | 290 |
| 7 | 110 | 377 | 52 | 616 | 224 | 0.1 | 1.5 | 0.6 | 423 | 464 | 435 |
| 8 | 110 | 503 | 66 | 784 | 286 | 0.1 | 1.4 | 0.5 | 565 | 620 | 580 |
| 6 | 125 | 350 | 42 | 505 | 184 | 0.1 | 1.3 | 0.5 | 456 | 501 | 468 |
| 7 | 125 | 526 | 59 | 700 | 255 | 0.1 | 1.2 | 0.5 | 686 | 752 | 704 |
| 8 | 125 | 701 | 75 | 891 | 325 | 0.1 | 1.1 | 0.4 | 914 | 1003 | 938 |

¹ Production rates are based on a consensus of replies to a user survey.

Tight Rust or Millscale

Hard Coating

High Profile Range

SSPC-SP 6

Tables 2133

RCC , RCP and PR

| Operating Conditions | | Median Production Rate ft ² /hr | Consumption Rate lbs/hr | | | Consumption Rate lbs/ft ² | | | Production Rate ft ² /hr of Blasting ¹ | | |
|----------------------|----------------|--|---------------------------|--------|---------|--------------------------------------|--------|---------|--|--------|---------|
| Nozzle Size | Pressure (psi) | | Steel Iron | Garnet | Alumina | Steel Iron | Garnet | Alumina | Steel Iron | Garnet | Alumina |
| | | 2141 | RCC With Recycling | | | | | | | | |
| 6 | 90 | 788 | 32 | 381 | 139 | 0.0 | 0.4 | 0.2 | 725 | 796 | 744 |
| 7 | 90 | 1181 | 44 | 525 | 191 | 0.0 | 0.4 | 0.2 | 1087 | 1193 | 1116 |
| 8 | 90 | 1574 | 57 | 673 | 245 | 0.0 | 0.4 | 0.1 | 1449 | 1589 | 1487 |
| 6 | 100 | 1000 | 35 | 418 | 152 | 0.0 | 0.4 | 0.1 | 1017 | 1115 | 1043 |
| 7 | 100 | 1500 | 48 | 574 | 209 | 0.0 | 0.3 | 0.1 | 1525 | 1673 | 1565 |
| 8 | 100 | 2000 | 62 | 734 | 267 | 0.0 | 0.3 | 0.1 | 2033 | 2231 | 2087 |
| 6 | 110 | 1258 | 37 | 444 | 162 | 0.0 | 0.3 | 0.1 | 1413 | 1550 | 1450 |
| 7 | 110 | 1888 | 52 | 616 | 224 | 0.0 | 0.3 | 0.1 | 2120 | 2326 | 2176 |
| 8 | 110 | 2518 | 66 | 784 | 286 | 0.0 | 0.3 | 0.1 | 2828 | 3102 | 2902 |
| 6 | 125 | 1753 | 42 | 505 | 184 | 0.0 | 0.3 | 0.1 | 2286 | 2507 | 2346 |
| 7 | 125 | 2629 | 59 | 700 | 255 | 0.0 | 0.2 | 0.1 | 3428 | 3761 | 3518 |
| 8 | 125 | 3507 | 75 | 891 | 325 | 0.0 | 0.2 | 0.1 | 4572 | 5016 | 4693 |

¹ Production rates are based on a consensus of replies to a user survey.

Tight Rust or Millscale

Tables **2141**

Hard Coating

Low Profile Range

SSPC-SP 7

RCC , RCP and PR

| Operating Conditions | | Median Production Rate ft ² /hr | Consumption Rate lbs/hr | | | Consumption Rate lbs/ft ² | | | Production Rate ft ² /hr of Blasting ¹ | | |
|----------------------|----------------|--|-------------------------|--------|---------|--------------------------------------|--------|---------|--|--------|---------|
| Nozzle Size | Pressure (psi) | | Steel Iron | Garnet | Alumina | Steel Iron | Garnet | Alumina | Steel Iron | Garnet | Alumina |
| | | 2211 | RCC With Recycling | | | | | | | | |
| 6 | 90 | 319 | 32 | 381 | 139 | 0.1 | 1.1 | 0.4 | 294 | 322 | 301 |
| 7 | 90 | 460 | 44 | 525 | 191 | 0.1 | 1.0 | 0.4 | 423 | 464 | 435 |
| 8 | 90 | 638 | 57 | 673 | 245 | 0.1 | 0.9 | 0.4 | 587 | 644 | 603 |
| 6 | 100 | 405 | 35 | 418 | 152 | 0.1 | 0.9 | 0.4 | 412 | 452 | 423 |
| 7 | 100 | 585 | 48 | 574 | 209 | 0.1 | 0.9 | 0.3 | 595 | 653 | 610 |
| 8 | 100 | 810 | 62 | 734 | 267 | 0.1 | 0.8 | 0.3 | 824 | 903 | 845 |
| 6 | 110 | 509 | 37 | 444 | 162 | 0.1 | 0.8 | 0.3 | 572 | 627 | 587 |
| 7 | 110 | 737 | 52 | 616 | 224 | 0.1 | 0.7 | 0.3 | 828 | 908 | 850 |
| 8 | 110 | 1019 | 66 | 784 | 286 | 0.1 | 0.7 | 0.3 | 1144 | 1255 | 1175 |
| 6 | 125 | 710 | 42 | 505 | 184 | 0.1 | 0.6 | 0.2 | 926 | 1016 | 950 |
| 7 | 125 | 1026 | 59 | 700 | 255 | 0.1 | 0.6 | 0.2 | 1338 | 1468 | 1373 |
| 8 | 125 | 1421 | 75 | 891 | 325 | 0.1 | 0.6 | 0.2 | 1853 | 2033 | 1902 |

¹ Production rates are based on a consensus of replies to a user survey.

Tight Rust or Millscale

Tables 2211

Soft Coating

Low Profile Range

SSPC-SP 5

RCC , RCP and PR

| Operating Conditions | | Median Production Rate ft ² /hr | Consumption Rate lbs/hr | | | Consumption Rate lbs/ft ² | | | Production Rate ft ² /hr of Blasting ¹ | | |
|----------------------|----------------|--|-------------------------|--------|---------|--------------------------------------|--------|---------|--|--------|---------|
| Nozzle Size | Pressure (psi) | | Steel Iron | Garnet | Alumina | Steel Iron | Garnet | Alumina | Steel Iron | Garnet | Alumina |
| | | 2212 | RCC With Recycling | | | | | | | | |
| 6 | 90 | 213 | 32 | 381 | 139 | 0.1 | 1.6 | 0.6 | 196 | 215 | 201 |
| 7 | 90 | 307 | 44 | 525 | 191 | 0.1 | 1.5 | 0.6 | 283 | 310 | 290 |
| 8 | 90 | 426 | 57 | 673 | 245 | 0.1 | 1.4 | 0.6 | 392 | 430 | 402 |
| 6 | 100 | 270 | 35 | 418 | 152 | 0.1 | 1.4 | 0.5 | 275 | 301 | 282 |
| 7 | 100 | 390 | 48 | 574 | 209 | 0.1 | 1.3 | 0.5 | 397 | 435 | 407 |
| 8 | 100 | 540 | 62 | 734 | 267 | 0.1 | 1.2 | 0.5 | 549 | 602 | 563 |
| 6 | 110 | 340 | 37 | 444 | 162 | 0.1 | 1.2 | 0.5 | 382 | 419 | 392 |
| 7 | 110 | 491 | 52 | 616 | 224 | 0.1 | 1.1 | 0.4 | 551 | 605 | 566 |
| 8 | 110 | 679 | 66 | 784 | 286 | 0.1 | 1.0 | 0.4 | 763 | 837 | 783 |
| 6 | 125 | 474 | 42 | 505 | 184 | 0.1 | 1.0 | 0.4 | 618 | 678 | 634 |
| 7 | 125 | 684 | 59 | 700 | 255 | 0.1 | 0.9 | 0.4 | 892 | 978 | 915 |
| 8 | 125 | 947 | 75 | 891 | 325 | 0.1 | 0.8 | 0.3 | 1235 | 1355 | 1267 |

¹ Production rates are based on a consensus of replies to a user survey.

Tight Rust or Millscale

Soft Coating

Medium Profile Range

SSPC-SP 5

Tables 2212

RCC , RCP and PR

| Operating Conditions | | Median Production Rate ft ² /hr | Consumption Rate lbs/hr | | | Consumption Rate lbs/ft ² | | | Production Rate ft ² /hr of Blasting ¹ | | |
|----------------------|----------------|--|-------------------------|--------|---------|--------------------------------------|--------|---------|--|--------|---------|
| Nozzle Size | Pressure (psi) | | Steel Iron | Garnet | Alumina | Steel Iron | Garnet | Alumina | Steel Iron | Garnet | Alumina |
| | | 2213 | RCC With Recycling | | | | | | | | |
| 6 | 90 | 106 | 32 | 381 | 139 | 0.3 | 3.2 | 1.3 | 98 | 107 | 100 |
| 7 | 90 | 153 | 44 | 525 | 191 | 0.3 | 3.1 | 1.2 | 141 | 154 | 145 |
| 8 | 90 | 213 | 57 | 673 | 245 | 0.3 | 2.8 | 1.1 | 196 | 215 | 201 |
| 6 | 100 | 135 | 35 | 418 | 152 | 0.3 | 2.8 | 1.1 | 137 | 151 | 141 |
| 7 | 100 | 195 | 48 | 574 | 209 | 0.2 | 2.6 | 1.0 | 198 | 218 | 203 |
| 8 | 100 | 270 | 62 | 734 | 267 | 0.2 | 2.4 | 0.9 | 275 | 301 | 282 |
| 6 | 110 | 170 | 37 | 444 | 162 | 0.2 | 2.3 | 0.9 | 191 | 209 | 196 |
| 7 | 110 | 246 | 52 | 616 | 224 | 0.2 | 2.2 | 0.9 | 276 | 303 | 284 |
| 8 | 110 | 340 | 66 | 784 | 286 | 0.2 | 2.1 | 0.8 | 382 | 419 | 392 |
| 6 | 125 | 237 | 42 | 505 | 184 | 0.2 | 1.9 | 0.7 | 309 | 339 | 317 |
| 7 | 125 | 342 | 59 | 700 | 255 | 0.2 | 1.8 | 0.7 | 446 | 489 | 458 |
| 8 | 125 | 474 | 75 | 891 | 325 | 0.2 | 1.7 | 0.7 | 618 | 678 | 634 |

¹ Production rates are based on a consensus of replies to a user survey.

Tight Rust or Millscale

Tables 2213

Soft Coating

High Profile Range

SSPC-SP 5

RCC , RCP and PR

| Operating Conditions | | Median Production Rate ft ² /hr | Consumption Rate lbs/hr | | | Consumption Rate lbs/ft ² | | | Production Rate ft ² /hr of Blasting ¹ | | |
|----------------------|----------------|--|-------------------------|--------|---------|--------------------------------------|--------|---------|--|--------|---------|
| Nozzle Size | Pressure (psi) | | Steel Iron | Garnet | Alumina | Steel Iron | Garnet | Alumina | Steel Iron | Garnet | Alumina |
| | | 2221 | RCC With Recycling | | | | | | | | |
| 6 | 90 | 354 | 32 | 381 | 139 | 0.1 | 1.0 | 0.4 | 326 | 357 | 334 |
| 7 | 90 | 495 | 44 | 525 | 191 | 0.1 | 1.0 | 0.4 | 456 | 500 | 468 |
| 8 | 90 | 691 | 57 | 673 | 245 | 0.1 | 0.9 | 0.3 | 636 | 698 | 653 |
| 6 | 100 | 450 | 35 | 418 | 152 | 0.1 | 0.8 | 0.3 | 458 | 502 | 470 |
| 7 | 100 | 630 | 48 | 574 | 209 | 0.1 | 0.8 | 0.3 | 641 | 703 | 657 |
| 8 | 100 | 878 | 62 | 734 | 267 | 0.1 | 0.7 | 0.3 | 893 | 979 | 916 |
| 6 | 110 | 566 | 37 | 444 | 162 | 0.1 | 0.7 | 0.3 | 636 | 697 | 652 |
| 7 | 110 | 794 | 52 | 616 | 224 | 0.1 | 0.7 | 0.3 | 892 | 978 | 915 |
| 8 | 110 | 1104 | 66 | 784 | 286 | 0.1 | 0.6 | 0.2 | 1240 | 1360 | 1273 |
| 6 | 125 | 790 | 42 | 505 | 184 | 0.1 | 0.6 | 0.2 | 1030 | 1130 | 1057 |
| 7 | 125 | 1105 | 59 | 700 | 255 | 0.1 | 0.6 | 0.2 | 1441 | 1581 | 1479 |
| 8 | 125 | 1538 | 75 | 891 | 325 | 0.0 | 0.5 | 0.2 | 2005 | 2200 | 2058 |

¹ Production rates are based on a consensus of replies to a user survey.

Tight Rust or Millscale

Tables 2221

Soft Coating

Low Profile Range

SSPC-SP 10

RCC , RCP and PR

| Operating Conditions | | Median Production Rate ft ² /hr | Consumption Rate lbs/hr | | | Consumption Rate lbs/ft ² | | | Production Rate ft ² /hr of Blasting ¹ | | |
|----------------------|----------------|--|-------------------------|--------|---------|--------------------------------------|--------|---------|--|--------|---------|
| Nozzle Size | Pressure (psi) | | Steel Iron | Garnet | Alumina | Steel Iron | Garnet | Alumina | Steel Iron | Garnet | Alumina |
| | | 2222 | RCC With Recycling | | | | | | | | |
| 6 | 90 | 236 | 32 | 381 | 139 | 0.1 | 1.4 | 0.6 | 217 | 238 | 223 |
| 7 | 90 | 330 | 44 | 525 | 191 | 0.1 | 1.4 | 0.6 | 304 | 333 | 312 |
| 8 | 90 | 461 | 57 | 673 | 245 | 0.1 | 1.3 | 0.5 | 424 | 465 | 435 |
| 6 | 100 | 300 | 35 | 418 | 152 | 0.1 | 1.2 | 0.5 | 305 | 335 | 313 |
| 7 | 100 | 420 | 48 | 574 | 209 | 0.1 | 1.2 | 0.5 | 427 | 468 | 438 |
| 8 | 100 | 585 | 62 | 734 | 267 | 0.1 | 1.1 | 0.4 | 595 | 652 | 610 |
| 6 | 110 | 377 | 37 | 444 | 162 | 0.1 | 1.1 | 0.4 | 423 | 464 | 435 |
| 7 | 110 | 529 | 52 | 616 | 224 | 0.1 | 1.0 | 0.4 | 594 | 652 | 610 |
| 8 | 110 | 736 | 66 | 784 | 286 | 0.1 | 1.0 | 0.4 | 827 | 907 | 848 |
| 6 | 125 | 527 | 42 | 505 | 184 | 0.1 | 0.9 | 0.3 | 687 | 754 | 705 |
| 7 | 125 | 737 | 59 | 700 | 255 | 0.1 | 0.9 | 0.3 | 961 | 1054 | 986 |
| 8 | 125 | 1026 | 75 | 891 | 325 | 0.1 | 0.8 | 0.3 | 1338 | 1468 | 1373 |

¹ Production rates are based on a consensus of replies to a user survey.

Tight Rust or Millscale

Tables 2222

Soft Coating

Medium Profile Range

SSPC-SP 10

RCC , RCP and PR

| Operating Conditions | | Median Production Rate ft ² /hr | Consumption Rate lbs/hr | | | Consumption Rate lbs/ft ² | | | Production Rate ft ² /hr of Blasting ¹ | | |
|----------------------|----------------|--|-------------------------|--------|---------|--------------------------------------|--------|---------|--|--------|---------|
| Nozzle Size | Pressure (psi) | | Steel Iron | Garnet | Alumina | Steel Iron | Garnet | Alumina | Steel Iron | Garnet | Alumina |
| | | 2223 | RCC With Recycling | | | | | | | | |
| 6 | 90 | 118 | 32 | 381 | 139 | 0.3 | 2.9 | 1.1 | 109 | 119 | 111 |
| 7 | 90 | 165 | 44 | 525 | 191 | 0.3 | 2.9 | 1.1 | 152 | 167 | 156 |
| 8 | 90 | 230 | 57 | 673 | 245 | 0.2 | 2.6 | 1.0 | 212 | 232 | 217 |
| 6 | 100 | 150 | 35 | 418 | 152 | 0.2 | 2.5 | 1.0 | 153 | 167 | 157 |
| 7 | 100 | 210 | 48 | 574 | 209 | 0.2 | 2.5 | 1.0 | 214 | 234 | 219 |
| 8 | 100 | 293 | 62 | 734 | 267 | 0.2 | 2.2 | 0.9 | 298 | 327 | 306 |
| 6 | 110 | 189 | 37 | 444 | 162 | 0.2 | 2.1 | 0.8 | 212 | 233 | 218 |
| 7 | 110 | 265 | 52 | 616 | 224 | 0.2 | 2.1 | 0.8 | 298 | 327 | 305 |
| 8 | 110 | 368 | 66 | 784 | 286 | 0.2 | 1.9 | 0.7 | 413 | 453 | 424 |
| 6 | 125 | 263 | 42 | 505 | 184 | 0.2 | 1.7 | 0.7 | 343 | 376 | 352 |
| 7 | 125 | 368 | 59 | 700 | 255 | 0.2 | 1.7 | 0.7 | 480 | 526 | 492 |
| 8 | 125 | 513 | 75 | 891 | 325 | 0.1 | 1.6 | 0.6 | 669 | 734 | 686 |

¹ Production rates are based on a consensus of replies to a user survey.

Tight Rust or Millscale

Tables 2223

Soft Coating

High Profile Range

SSPC-SP 10

RCC , RCP and PR

| Operating Conditions | | Median Production Rate ft ² /hr | Consumption Rate lbs/hr | | | Consumption Rate lbs/ft ² | | | Production Rate ft ² /hr of Blasting ¹ | | |
|----------------------|----------------|--|---------------------------|--------|---------|--------------------------------------|--------|---------|--|--------|---------|
| Nozzle Size | Pressure (psi) | | Steel Iron | Garnet | Alumina | Steel Iron | Garnet | Alumina | Steel Iron | Garnet | Alumina |
| | | 2231 | RCC With Recycling | | | | | | | | |
| 6 | 90 | 709 | 32 | 381 | 139 | 0.0 | 0.5 | 0.2 | 653 | 716 | 670 |
| 7 | 90 | 1063 | 44 | 525 | 191 | 0.0 | 0.4 | 0.2 | 978 | 1073 | 1004 |
| 8 | 90 | 1418 | 57 | 673 | 245 | 0.0 | 0.4 | 0.2 | 1305 | 1432 | 1340 |
| 6 | 100 | 900 | 35 | 418 | 152 | 0.0 | 0.4 | 0.2 | 915 | 1004 | 939 |
| 7 | 100 | 1350 | 48 | 574 | 209 | 0.0 | 0.4 | 0.1 | 1373 | 1506 | 1409 |
| 8 | 100 | 1800 | 62 | 734 | 267 | 0.0 | 0.4 | 0.1 | 1830 | 2008 | 1878 |
| 6 | 110 | 1132 | 37 | 444 | 162 | 0.0 | 0.4 | 0.1 | 1271 | 1395 | 1305 |
| 7 | 110 | 1699 | 52 | 616 | 224 | 0.0 | 0.3 | 0.1 | 1908 | 2093 | 1958 |
| 8 | 110 | 2265 | 66 | 784 | 286 | 0.0 | 0.3 | 0.1 | 2544 | 2791 | 2611 |
| 6 | 125 | 1577 | 42 | 505 | 184 | 0.0 | 0.3 | 0.1 | 2056 | 2256 | 2110 |
| 7 | 125 | 2367 | 59 | 700 | 255 | 0.0 | 0.3 | 0.1 | 3086 | 3386 | 3167 |
| 8 | 125 | 3156 | 75 | 891 | 325 | 0.0 | 0.3 | 0.1 | 4115 | 4514 | 4223 |

¹ Production rates are based on a consensus of replies to a user survey.

Tight Rust or Millscale

Tables **2231**

Soft Coating

Low Profile Range

SSPC-SP 6

RCC , RCP and PR

| Operating Conditions | | Median Production Rate ft ² /hr | Consumption Rate lbs/hr | | | Consumption Rate lbs/ft ² | | | Production Rate ft ² /hr of Blasting ¹ | | |
|----------------------|----------------|--|-------------------------|--------|---------|--------------------------------------|--------|---------|--|--------|---------|
| Nozzle Size | Pressure (psi) | | Steel Iron | Garnet | Alumina | Steel Iron | Garnet | Alumina | Steel Iron | Garnet | Alumina |
| | | 2232 | RCC With Recycling | | | | | | | | |
| 6 | 90 | 473 | 32 | 381 | 139 | 0.1 | 0.7 | 0.3 | 435 | 478 | 447 |
| 7 | 90 | 709 | 44 | 525 | 191 | 0.1 | 0.7 | 0.3 | 653 | 716 | 670 |
| 8 | 90 | 945 | 57 | 673 | 245 | 0.1 | 0.6 | 0.2 | 870 | 954 | 893 |
| 6 | 100 | 600 | 35 | 418 | 152 | 0.1 | 0.6 | 0.2 | 610 | 669 | 626 |
| 7 | 100 | 900 | 48 | 574 | 209 | 0.1 | 0.6 | 0.2 | 915 | 1004 | 939 |
| 8 | 100 | 1200 | 62 | 734 | 267 | 0.1 | 0.5 | 0.2 | 1220 | 1338 | 1252 |
| 6 | 110 | 755 | 37 | 444 | 162 | 0.0 | 0.5 | 0.2 | 848 | 930 | 870 |
| 7 | 110 | 1132 | 52 | 616 | 224 | 0.0 | 0.5 | 0.2 | 1271 | 1395 | 1305 |
| 8 | 110 | 1510 | 66 | 784 | 286 | 0.0 | 0.5 | 0.2 | 1696 | 1860 | 1741 |
| 6 | 125 | 1051 | 42 | 505 | 184 | 0.0 | 0.4 | 0.2 | 1370 | 1503 | 1406 |
| 7 | 125 | 1578 | 59 | 700 | 255 | 0.0 | 0.4 | 0.2 | 2057 | 2257 | 2112 |
| 8 | 125 | 2104 | 75 | 891 | 325 | 0.0 | 0.4 | 0.1 | 2743 | 3010 | 2816 |

¹ Production rates are based on a consensus of replies to a user survey.

Tight Rust or Millscale

Tables 2232

Soft Coating

Medium Profile Range

SSPC-SP 6

RCC , RCP and PR

| Operating Conditions | | Median Production Rate ft ² /hr | Consumption Rate lbs/hr | | | Consumption Rate lbs/ft ² | | | Production Rate ft ² /hr of Blasting ¹ | | |
|----------------------|----------------|--|-------------------------|--------|---------|--------------------------------------|--------|---------|--|--------|---------|
| Nozzle Size | Pressure (psi) | | Steel Iron | Garnet | Alumina | Steel Iron | Garnet | Alumina | Steel Iron | Garnet | Alumina |
| | | 2233 | RCC With Recycling | | | | | | | | |
| 6 | 90 | 236 | 32 | 381 | 139 | 0.1 | 1.4 | 0.6 | 217 | 238 | 223 |
| 7 | 90 | 354 | 44 | 525 | 191 | 0.1 | 1.3 | 0.5 | 326 | 357 | 334 |
| 8 | 90 | 473 | 57 | 673 | 245 | 0.1 | 1.3 | 0.5 | 435 | 478 | 447 |
| 6 | 100 | 300 | 35 | 418 | 152 | 0.1 | 1.2 | 0.5 | 305 | 335 | 313 |
| 7 | 100 | 450 | 48 | 574 | 209 | 0.1 | 1.1 | 0.4 | 458 | 502 | 470 |
| 8 | 100 | 600 | 62 | 734 | 267 | 0.1 | 1.1 | 0.4 | 610 | 669 | 626 |
| 6 | 110 | 377 | 37 | 444 | 162 | 0.1 | 1.1 | 0.4 | 423 | 464 | 435 |
| 7 | 110 | 566 | 52 | 616 | 224 | 0.1 | 1.0 | 0.4 | 636 | 697 | 652 |
| 8 | 110 | 755 | 66 | 784 | 286 | 0.1 | 0.9 | 0.4 | 848 | 930 | 870 |
| 6 | 125 | 526 | 42 | 505 | 184 | 0.1 | 0.9 | 0.3 | 686 | 752 | 704 |
| 7 | 125 | 789 | 59 | 700 | 255 | 0.1 | 0.8 | 0.3 | 1029 | 1129 | 1056 |
| 8 | 125 | 1052 | 75 | 891 | 325 | 0.1 | 0.8 | 0.3 | 1372 | 1505 | 1408 |

¹ Production rates are based on a consensus of replies to a user survey.

Tight Rust or Millscale

Soft Coating

High Profile Range

SSPC-SP 6

Tables 2233

RCC , RCP and PR

| Operating Conditions | | Median Production Rate ft ² /hr | Consumption Rate lbs/hr | | | Consumption Rate lbs/ft ² | | | Production Rate ft ² /hr of Blasting ¹ | | |
|----------------------|----------------|--|-------------------------|--------|---------|--------------------------------------|--------|---------|--|--------|---------|
| Nozzle Size | Pressure (psi) | | Steel Iron | Garnet | Alumina | Steel Iron | Garnet | Alumina | Steel Iron | Garnet | Alumina |
| | | 2241 | RCC With Recycling | | | | | | | | |
| 6 | 90 | 788 | 32 | 381 | 139 | 0.0 | 0.4 | 0.2 | 725 | 796 | 744 |
| 7 | 90 | 1181 | 44 | 525 | 191 | 0.0 | 0.4 | 0.2 | 1087 | 1193 | 1116 |
| 8 | 90 | 1574 | 57 | 673 | 245 | 0.0 | 0.4 | 0.1 | 1449 | 1589 | 1487 |
| 6 | 100 | 1000 | 35 | 418 | 152 | 0.0 | 0.4 | 0.1 | 1017 | 1115 | 1043 |
| 7 | 100 | 1500 | 48 | 574 | 209 | 0.0 | 0.3 | 0.1 | 1525 | 1673 | 1565 |
| 8 | 100 | 2000 | 62 | 734 | 267 | 0.0 | 0.3 | 0.1 | 2033 | 2231 | 2087 |
| 6 | 110 | 1258 | 37 | 444 | 162 | 0.0 | 0.3 | 0.1 | 1413 | 1550 | 1450 |
| 7 | 110 | 1888 | 52 | 616 | 224 | 0.0 | 0.3 | 0.1 | 2120 | 2326 | 2176 |
| 8 | 110 | 2518 | 66 | 784 | 286 | 0.0 | 0.3 | 0.1 | 2828 | 3102 | 2902 |
| 6 | 125 | 1753 | 42 | 505 | 184 | 0.0 | 0.3 | 0.1 | 2286 | 2507 | 2346 |
| 7 | 125 | 2629 | 59 | 700 | 255 | 0.0 | 0.2 | 0.1 | 3428 | 3761 | 3518 |
| 8 | 125 | 3507 | 75 | 891 | 325 | 0.0 | 0.2 | 0.1 | 4572 | 5016 | 4693 |

¹ Production rates are based on a consensus of replies to a user survey.

Tight Rust or Millscale

Tables 2241

Soft Coating

Low Profile Range

SSPC-SP 7

RCC , RCP and PR

| Operating Conditions | | Median Production Rate ft ² /hr | Consumption Rate lbs/hr | | | Consumption Rate lbs/ft ² | | | Production Rate ft ² /hr of Blasting ¹ | | |
|----------------------|----------------|--|-------------------------|--------|---------|--------------------------------------|--------|---------|--|--------|---------|
| Nozzle Size | Pressure (psi) | | Steel Iron | Garnet | Alumina | Steel Iron | Garnet | Alumina | Steel Iron | Garnet | Alumina |
| | | 2311 | RCC With Recycling | | | | | | | | |
| 6 | 90 | 213 | 32 | 381 | 139 | 0.1 | 1.6 | 0.6 | 196 | 215 | 201 |
| 7 | 90 | 307 | 44 | 525 | 191 | 0.1 | 1.5 | 0.6 | 283 | 310 | 290 |
| 8 | 90 | 426 | 57 | 673 | 245 | 0.1 | 1.4 | 0.6 | 392 | 430 | 402 |
| 6 | 100 | 270 | 35 | 418 | 152 | 0.1 | 1.4 | 0.5 | 275 | 301 | 282 |
| 7 | 100 | 390 | 48 | 574 | 209 | 0.1 | 1.3 | 0.5 | 397 | 435 | 407 |
| 8 | 100 | 540 | 62 | 734 | 267 | 0.1 | 1.2 | 0.5 | 549 | 602 | 563 |
| 6 | 110 | 340 | 37 | 444 | 162 | 0.1 | 1.2 | 0.5 | 382 | 419 | 392 |
| 7 | 110 | 491 | 52 | 616 | 224 | 0.1 | 1.1 | 0.4 | 551 | 605 | 566 |
| 8 | 110 | 679 | 66 | 784 | 286 | 0.1 | 1.0 | 0.4 | 763 | 837 | 783 |
| 6 | 125 | 474 | 42 | 505 | 184 | 0.1 | 1.0 | 0.4 | 618 | 678 | 634 |
| 7 | 125 | 684 | 59 | 700 | 255 | 0.1 | 0.9 | 0.4 | 892 | 978 | 915 |
| 8 | 125 | 947 | 75 | 891 | 325 | 0.1 | 0.8 | 0.3 | 1235 | 1355 | 1267 |

¹ Production rates are based on a consensus of replies to a user survey.

Tight Rust or Millscale

Tables 2311

New Steel

Low Profile Range

SSPC-SP 5

RCC , RCP and PR

| Operating Conditions | | Median Production Rate ft ² /hr | Consumption Rate lbs/hr | | | Consumption Rate lbs/ft ² | | | Production Rate ft ² /hr of Blasting ¹ | | |
|----------------------|----------------|--|-------------------------|--------|---------|--------------------------------------|--------|---------|--|--------|---------|
| Nozzle Size | Pressure (psi) | | Steel Iron | Garnet | Alumina | Steel Iron | Garnet | Alumina | Steel Iron | Garnet | Alumina |
| | | 2311 | RCC With Recycling | | | | | | | | |
| 6 | 90 | 213 | 32 | 381 | 139 | 0.1 | 1.6 | 0.6 | 196 | 215 | 201 |
| 7 | 90 | 307 | 44 | 525 | 191 | 0.1 | 1.5 | 0.6 | 283 | 310 | 290 |
| 8 | 90 | 426 | 57 | 673 | 245 | 0.1 | 1.4 | 0.6 | 392 | 430 | 402 |
| 6 | 100 | 270 | 35 | 418 | 152 | 0.1 | 1.4 | 0.5 | 275 | 301 | 282 |
| 7 | 100 | 390 | 48 | 574 | 209 | 0.1 | 1.3 | 0.5 | 397 | 435 | 407 |
| 8 | 100 | 540 | 62 | 734 | 267 | 0.1 | 1.2 | 0.5 | 549 | 602 | 563 |
| 6 | 110 | 340 | 37 | 444 | 162 | 0.1 | 1.2 | 0.5 | 382 | 419 | 392 |
| 7 | 110 | 491 | 52 | 616 | 224 | 0.1 | 1.1 | 0.4 | 551 | 605 | 566 |
| 8 | 110 | 679 | 66 | 784 | 286 | 0.1 | 1.0 | 0.4 | 763 | 837 | 783 |
| 6 | 125 | 474 | 42 | 505 | 184 | 0.1 | 1.0 | 0.4 | 618 | 678 | 634 |
| 7 | 125 | 684 | 59 | 700 | 255 | 0.1 | 0.9 | 0.4 | 892 | 978 | 915 |
| 8 | 125 | 947 | 75 | 891 | 325 | 0.1 | 0.8 | 0.3 | 1235 | 1355 | 1267 |

¹ Production rates are based on a consensus of replies to a user survey.

Tight Rust or Millscale

Tables 2311

New Steel

Low Profile Range

SSPC-SP 5

RCC , RCP and PR

| Operating Conditions | | Median Production Rate ft ² /hr | Consumption Rate lbs/hr | | | Consumption Rate lbs/ft ² | | | Production Rate ft ² /hr of Blasting ¹ | | |
|----------------------|----------------|--|-------------------------|--------|---------|--------------------------------------|--------|---------|--|--------|---------|
| Nozzle Size | Pressure (psi) | | Steel Iron | Garnet | Alumina | Steel Iron | Garnet | Alumina | Steel Iron | Garnet | Alumina |
| | | 2312 | RCC With Recycling | | | | | | | | |
| 6 | 90 | 142 | 32 | 381 | 139 | 0.2 | 2.4 | 0.9 | 131 | 143 | 134 |
| 7 | 90 | 204 | 44 | 525 | 191 | 0.2 | 2.3 | 0.9 | 188 | 206 | 193 |
| 8 | 90 | 284 | 57 | 673 | 245 | 0.2 | 2.1 | 0.8 | 261 | 287 | 268 |
| 6 | 100 | 180 | 35 | 418 | 152 | 0.2 | 2.1 | 0.8 | 183 | 201 | 188 |
| 7 | 100 | 260 | 48 | 574 | 209 | 0.2 | 2.0 | 0.8 | 264 | 290 | 271 |
| 8 | 100 | 360 | 62 | 734 | 267 | 0.2 | 1.8 | 0.7 | 366 | 402 | 376 |
| 6 | 110 | 226 | 37 | 444 | 162 | 0.2 | 1.8 | 0.7 | 254 | 278 | 260 |
| 7 | 110 | 328 | 52 | 616 | 224 | 0.2 | 1.7 | 0.7 | 368 | 404 | 378 |
| 8 | 110 | 453 | 66 | 784 | 286 | 0.1 | 1.6 | 0.6 | 509 | 558 | 522 |
| 6 | 125 | 316 | 42 | 505 | 184 | 0.1 | 1.4 | 0.6 | 412 | 452 | 423 |
| 7 | 125 | 456 | 59 | 700 | 255 | 0.1 | 1.4 | 0.5 | 595 | 652 | 610 |
| 8 | 125 | 631 | 75 | 891 | 325 | 0.1 | 1.3 | 0.5 | 823 | 903 | 844 |

¹ Production rates are based on a consensus of replies to a user survey.

Tight Rust or Millscale

New Steel

Medium Profile Range

SSPC-SP 5

Tables 2312

RCC , RCP and PR

| Operating Conditions | | Median Production Rate ft ² /hr | Consumption Rate lbs/hr | | | Consumption Rate lbs/ft ² | | | Production Rate ft ² /hr of Blasting ¹ | | |
|----------------------|----------------|--|-------------------------|--------|---------|--------------------------------------|--------|---------|--|--------|---------|
| Nozzle Size | Pressure (psi) | | Steel Iron | Garnet | Alumina | Steel Iron | Garnet | Alumina | Steel Iron | Garnet | Alumina |
| | | 2312 | RCC With Recycling | | | | | | | | |
| 6 | 90 | 142 | 32 | 381 | 139 | 0.2 | 2.4 | 0.9 | 131 | 143 | 134 |
| 7 | 90 | 204 | 44 | 525 | 191 | 0.2 | 2.3 | 0.9 | 188 | 206 | 193 |
| 8 | 90 | 284 | 57 | 673 | 245 | 0.2 | 2.1 | 0.8 | 261 | 287 | 268 |
| 6 | 100 | 180 | 35 | 418 | 152 | 0.2 | 2.1 | 0.8 | 183 | 201 | 188 |
| 7 | 100 | 260 | 48 | 574 | 209 | 0.2 | 2.0 | 0.8 | 264 | 290 | 271 |
| 8 | 100 | 360 | 62 | 734 | 267 | 0.2 | 1.8 | 0.7 | 366 | 402 | 376 |
| 6 | 110 | 226 | 37 | 444 | 162 | 0.2 | 1.8 | 0.7 | 254 | 278 | 260 |
| 7 | 110 | 328 | 52 | 616 | 224 | 0.2 | 1.7 | 0.7 | 368 | 404 | 378 |
| 8 | 110 | 453 | 66 | 784 | 286 | 0.1 | 1.6 | 0.6 | 509 | 558 | 522 |
| 6 | 125 | 316 | 42 | 505 | 184 | 0.1 | 1.4 | 0.6 | 412 | 452 | 423 |
| 7 | 125 | 456 | 59 | 700 | 255 | 0.1 | 1.4 | 0.5 | 595 | 652 | 610 |
| 8 | 125 | 631 | 75 | 891 | 325 | 0.1 | 1.3 | 0.5 | 823 | 903 | 844 |

¹ Production rates are based on a consensus of replies to a user survey.

Tight Rust or Millscale

New Steel

Medium Profile Range

SSPC-SP 5

Tables 2312

RCC , RCP and PR

| Operating Conditions | | Median Production Rate ft ² /hr | Consumption Rate lbs/hr | | | Consumption Rate lbs/ft ² | | | Production Rate ft ² /hr of Blasting ¹ | | |
|----------------------|----------------|--|---------------------------|--------|---------|--------------------------------------|--------|---------|--|--------|---------|
| Nozzle Size | Pressure (psi) | | Steel Iron | Garnet | Alumina | Steel Iron | Garnet | Alumina | Steel Iron | Garnet | Alumina |
| | | 2313 | RCC With Recycling | | | | | | | | |
| 6 | 90 | 71 | 32 | 381 | 139 | 0.4 | 4.8 | 1.9 | 65 | 72 | 67 |
| 7 | 90 | 102 | 44 | 525 | 191 | 0.4 | 4.6 | 1.8 | 94 | 103 | 96 |
| 8 | 90 | 142 | 57 | 673 | 245 | 0.4 | 4.2 | 1.7 | 131 | 143 | 134 |
| 6 | 100 | 90 | 35 | 418 | 152 | 0.4 | 4.2 | 1.6 | 92 | 100 | 94 |
| 7 | 100 | 130 | 48 | 574 | 209 | 0.4 | 4.0 | 1.5 | 132 | 145 | 136 |
| 8 | 100 | 180 | 62 | 734 | 267 | 0.3 | 3.7 | 1.4 | 183 | 201 | 188 |
| 6 | 110 | 113 | 37 | 444 | 162 | 0.3 | 3.5 | 1.4 | 127 | 139 | 130 |
| 7 | 110 | 164 | 52 | 616 | 224 | 0.3 | 3.4 | 1.3 | 184 | 202 | 189 |
| 8 | 110 | 226 | 66 | 784 | 286 | 0.3 | 3.1 | 1.2 | 254 | 278 | 260 |
| 6 | 125 | 158 | 42 | 505 | 184 | 0.3 | 2.9 | 1.1 | 206 | 226 | 211 |
| 7 | 125 | 228 | 59 | 700 | 255 | 0.3 | 2.8 | 1.1 | 297 | 326 | 305 |
| 8 | 125 | 316 | 75 | 891 | 325 | 0.2 | 2.5 | 1.0 | 412 | 452 | 423 |

¹ Production rates are based on a consensus of replies to a user survey.

Tight Rust or Millscale

Tables **2313**

New Steel

High Profile Range

SSPC-SP 5

RCC , RCP and PR

| Operating Conditions | | Median Production Rate ft ² /hr | Consumption Rate lbs/hr | | | Consumption Rate lbs/ft ² | | | Production Rate ft ² /hr of Blasting ¹ | | |
|----------------------|----------------|--|---------------------------|--------|---------|--------------------------------------|--------|---------|--|--------|---------|
| Nozzle Size | Pressure (psi) | | Steel Iron | Garnet | Alumina | Steel Iron | Garnet | Alumina | Steel Iron | Garnet | Alumina |
| | | 2313 | RCC With Recycling | | | | | | | | |
| 6 | 90 | 71 | 32 | 381 | 139 | 0.4 | 4.8 | 1.9 | 65 | 72 | 67 |
| 7 | 90 | 102 | 44 | 525 | 191 | 0.4 | 4.6 | 1.8 | 94 | 103 | 96 |
| 8 | 90 | 142 | 57 | 673 | 245 | 0.4 | 4.2 | 1.7 | 131 | 143 | 134 |
| 6 | 100 | 90 | 35 | 418 | 152 | 0.4 | 4.2 | 1.6 | 92 | 100 | 94 |
| 7 | 100 | 130 | 48 | 574 | 209 | 0.4 | 4.0 | 1.5 | 132 | 145 | 136 |
| 8 | 100 | 180 | 62 | 734 | 267 | 0.3 | 3.7 | 1.4 | 183 | 201 | 188 |
| 6 | 110 | 113 | 37 | 444 | 162 | 0.3 | 3.5 | 1.4 | 127 | 139 | 130 |
| 7 | 110 | 164 | 52 | 616 | 224 | 0.3 | 3.4 | 1.3 | 184 | 202 | 189 |
| 8 | 110 | 226 | 66 | 784 | 286 | 0.3 | 3.1 | 1.2 | 254 | 278 | 260 |
| 6 | 125 | 158 | 42 | 505 | 184 | 0.3 | 2.9 | 1.1 | 206 | 226 | 211 |
| 7 | 125 | 228 | 59 | 700 | 255 | 0.3 | 2.8 | 1.1 | 297 | 326 | 305 |
| 8 | 125 | 316 | 75 | 891 | 325 | 0.2 | 2.5 | 1.0 | 412 | 452 | 423 |

¹ Production rates are based on a consensus of replies to a user survey.

Tight Rust or Millscale

Tables **2313**

New Steel

High Profile Range

SSPC-SP 5

RCC , RCP and PR

| Operating Conditions | | Median Production Rate ft ² /hr | Consumption Rate lbs/hr | | | Consumption Rate lbs/ft ² | | | Production Rate ft ² /hr of Blasting ¹ | | |
|----------------------|----------------|--|-------------------------|--------|---------|--------------------------------------|--------|---------|--|--------|---------|
| Nozzle Size | Pressure (psi) | | Steel Iron | Garnet | Alumina | Steel Iron | Garnet | Alumina | Steel Iron | Garnet | Alumina |
| | | 2321 | RCC With Recycling | | | | | | | | |
| 6 | 90 | 236 | 32 | 381 | 139 | 0.1 | 1.4 | 0.6 | 217 | 238 | 223 |
| 7 | 90 | 330 | 44 | 525 | 191 | 0.1 | 1.4 | 0.6 | 304 | 333 | 312 |
| 8 | 90 | 461 | 57 | 673 | 245 | 0.1 | 1.3 | 0.5 | 424 | 465 | 435 |
| 6 | 100 | 300 | 35 | 418 | 152 | 0.1 | 1.2 | 0.5 | 305 | 335 | 313 |
| 7 | 100 | 420 | 48 | 574 | 209 | 0.1 | 1.2 | 0.5 | 427 | 468 | 438 |
| 8 | 100 | 585 | 62 | 734 | 267 | 0.1 | 1.1 | 0.4 | 595 | 652 | 610 |
| 6 | 110 | 377 | 37 | 444 | 162 | 0.1 | 1.1 | 0.4 | 423 | 464 | 435 |
| 7 | 110 | 529 | 52 | 616 | 224 | 0.1 | 1.0 | 0.4 | 594 | 652 | 610 |
| 8 | 110 | 736 | 66 | 784 | 286 | 0.1 | 1.0 | 0.4 | 827 | 907 | 848 |
| 6 | 125 | 527 | 42 | 505 | 184 | 0.1 | 0.9 | 0.3 | 687 | 754 | 705 |
| 7 | 125 | 737 | 59 | 700 | 255 | 0.1 | 0.9 | 0.3 | 961 | 1054 | 986 |
| 8 | 125 | 1026 | 75 | 891 | 325 | 0.1 | 0.8 | 0.3 | 1338 | 1468 | 1373 |

¹ Production rates are based on a consensus of replies to a user survey.

Tight Rust or Millscale

Tables 2321

New Steel

Low Profile Range

SSPC-SP 10

RCC , RCP and PR

| Operating Conditions | | Median Production Rate ft ² /hr | Consumption Rate lbs/hr | | | Consumption Rate lbs/ft ² | | | Production Rate ft ² /hr of Blasting ¹ | | |
|----------------------|----------------|--|-------------------------|--------|---------|--------------------------------------|--------|---------|--|--------|---------|
| Nozzle Size | Pressure (psi) | | Steel Iron | Garnet | Alumina | Steel Iron | Garnet | Alumina | Steel Iron | Garnet | Alumina |
| | | 2321 | RCC With Recycling | | | | | | | | |
| 6 | 90 | 236 | 32 | 381 | 139 | 0.1 | 1.4 | 0.6 | 217 | 238 | 223 |
| 7 | 90 | 330 | 44 | 525 | 191 | 0.1 | 1.4 | 0.6 | 304 | 333 | 312 |
| 8 | 90 | 461 | 57 | 673 | 245 | 0.1 | 1.3 | 0.5 | 424 | 465 | 435 |
| 6 | 100 | 300 | 35 | 418 | 152 | 0.1 | 1.2 | 0.5 | 305 | 335 | 313 |
| 7 | 100 | 420 | 48 | 574 | 209 | 0.1 | 1.2 | 0.5 | 427 | 468 | 438 |
| 8 | 100 | 585 | 62 | 734 | 267 | 0.1 | 1.1 | 0.4 | 595 | 652 | 610 |
| 6 | 110 | 377 | 37 | 444 | 162 | 0.1 | 1.1 | 0.4 | 423 | 464 | 435 |
| 7 | 110 | 529 | 52 | 616 | 224 | 0.1 | 1.0 | 0.4 | 594 | 652 | 610 |
| 8 | 110 | 736 | 66 | 784 | 286 | 0.1 | 1.0 | 0.4 | 827 | 907 | 848 |
| 6 | 125 | 527 | 42 | 505 | 184 | 0.1 | 0.9 | 0.3 | 687 | 754 | 705 |
| 7 | 125 | 737 | 59 | 700 | 255 | 0.1 | 0.9 | 0.3 | 961 | 1054 | 986 |
| 8 | 125 | 1026 | 75 | 891 | 325 | 0.1 | 0.8 | 0.3 | 1338 | 1468 | 1373 |

¹ Production rates are based on a consensus of replies to a user survey.

Tight Rust or Millscale

Tables 2321

New Steel

Low Profile Range

SSPC-SP 10

RCC , RCP and PR

| Operating Conditions | | Median Production Rate ft ² /hr | Consumption Rate lbs/hr | | | Consumption Rate lbs/ft ² | | | Production Rate ft ² /hr of Blasting ¹ | | |
|----------------------|----------------|--|---------------------------|--------|---------|--------------------------------------|--------|---------|--|--------|---------|
| Nozzle Size | Pressure (psi) | | Steel Iron | Garnet | Alumina | Steel Iron | Garnet | Alumina | Steel Iron | Garnet | Alumina |
| | | 2322 | RCC With Recycling | | | | | | | | |
| 6 | 90 | 158 | 32 | 381 | 139 | 0.2 | 2.2 | 0.8 | 145 | 160 | 149 |
| 7 | 90 | 220 | 44 | 525 | 191 | 0.2 | 2.1 | 0.8 | 202 | 222 | 208 |
| 8 | 90 | 307 | 57 | 673 | 245 | 0.2 | 2.0 | 0.8 | 283 | 310 | 290 |
| 6 | 100 | 200 | 35 | 418 | 152 | 0.2 | 1.9 | 0.7 | 203 | 223 | 209 |
| 7 | 100 | 280 | 48 | 574 | 209 | 0.2 | 1.8 | 0.7 | 285 | 312 | 292 |
| 8 | 100 | 390 | 62 | 734 | 267 | 0.2 | 1.7 | 0.7 | 397 | 435 | 407 |
| 6 | 110 | 252 | 37 | 444 | 162 | 0.1 | 1.6 | 0.6 | 283 | 310 | 290 |
| 7 | 110 | 353 | 52 | 616 | 224 | 0.1 | 1.6 | 0.6 | 396 | 435 | 407 |
| 8 | 110 | 491 | 66 | 784 | 286 | 0.1 | 1.4 | 0.6 | 551 | 605 | 566 |
| 6 | 125 | 351 | 42 | 505 | 184 | 0.1 | 1.3 | 0.5 | 458 | 502 | 470 |
| 7 | 125 | 491 | 59 | 700 | 255 | 0.1 | 1.3 | 0.5 | 640 | 702 | 657 |
| 8 | 125 | 684 | 75 | 891 | 325 | 0.1 | 1.2 | 0.5 | 892 | 978 | 915 |

¹ Production rates are based on a consensus of replies to a user survey.

Tight Rust or Millscale

New Steel

Medium Profile Range

SSPC-SP 10

Tables 2322

RCC , RCP and PR

| Operating Conditions | | Median Production Rate ft ² /hr | Consumption Rate lbs/hr | | | Consumption Rate lbs/ft ² | | | Production Rate ft ² /hr of Blasting ¹ | | |
|----------------------|----------------|--|---------------------------|--------|---------|--------------------------------------|--------|---------|--|--------|---------|
| Nozzle Size | Pressure (psi) | | Steel Iron | Garnet | Alumina | Steel Iron | Garnet | Alumina | Steel Iron | Garnet | Alumina |
| | | 2322 | RCC With Recycling | | | | | | | | |
| 6 | 90 | 158 | 32 | 381 | 139 | 0.2 | 2.2 | 0.8 | 145 | 160 | 149 |
| 7 | 90 | 220 | 44 | 525 | 191 | 0.2 | 2.1 | 0.8 | 202 | 222 | 208 |
| 8 | 90 | 307 | 57 | 673 | 245 | 0.2 | 2.0 | 0.8 | 283 | 310 | 290 |
| 6 | 100 | 200 | 35 | 418 | 152 | 0.2 | 1.9 | 0.7 | 203 | 223 | 209 |
| 7 | 100 | 280 | 48 | 574 | 209 | 0.2 | 1.8 | 0.7 | 285 | 312 | 292 |
| 8 | 100 | 390 | 62 | 734 | 267 | 0.2 | 1.7 | 0.7 | 397 | 435 | 407 |
| 6 | 110 | 252 | 37 | 444 | 162 | 0.1 | 1.6 | 0.6 | 283 | 310 | 290 |
| 7 | 110 | 353 | 52 | 616 | 224 | 0.1 | 1.6 | 0.6 | 396 | 435 | 407 |
| 8 | 110 | 491 | 66 | 784 | 286 | 0.1 | 1.4 | 0.6 | 551 | 605 | 566 |
| 6 | 125 | 351 | 42 | 505 | 184 | 0.1 | 1.3 | 0.5 | 458 | 502 | 470 |
| 7 | 125 | 491 | 59 | 700 | 255 | 0.1 | 1.3 | 0.5 | 640 | 702 | 657 |
| 8 | 125 | 684 | 75 | 891 | 325 | 0.1 | 1.2 | 0.5 | 892 | 978 | 915 |

¹ Production rates are based on a consensus of replies to a user survey.

Tight Rust or Millscale

New Steel

Medium Profile Range

SSPC-SP 10

Tables 2322

RCC , RCP and PR

| Operating Conditions | | Median Production Rate ft ² /hr | Consumption Rate lbs/hr | | | Consumption Rate lbs/ft ² | | | Production Rate ft ² /hr of Blasting ¹ | | |
|----------------------|----------------|--|---------------------------|--------|---------|--------------------------------------|--------|---------|--|--------|---------|
| Nozzle Size | Pressure (psi) | | Steel Iron | Garnet | Alumina | Steel Iron | Garnet | Alumina | Steel Iron | Garnet | Alumina |
| | | 2323 | RCC With Recycling | | | | | | | | |
| 6 | 90 | 79 | 32 | 381 | 139 | 0.4 | 4.3 | 1.7 | 73 | 80 | 75 |
| 7 | 90 | 110 | 44 | 525 | 191 | 0.4 | 4.3 | 1.7 | 101 | 111 | 104 |
| 8 | 90 | 154 | 57 | 673 | 245 | 0.4 | 3.9 | 1.5 | 142 | 156 | 145 |
| 6 | 100 | 100 | 35 | 418 | 152 | 0.3 | 3.7 | 1.5 | 102 | 112 | 104 |
| 7 | 100 | 140 | 48 | 574 | 209 | 0.3 | 3.7 | 1.4 | 142 | 156 | 146 |
| 8 | 100 | 195 | 62 | 734 | 267 | 0.3 | 3.4 | 1.3 | 198 | 217 | 203 |
| 6 | 110 | 126 | 37 | 444 | 162 | 0.3 | 3.2 | 1.2 | 142 | 155 | 145 |
| 7 | 110 | 176 | 52 | 616 | 224 | 0.3 | 3.1 | 1.2 | 198 | 217 | 203 |
| 8 | 110 | 245 | 66 | 784 | 286 | 0.3 | 2.9 | 1.1 | 275 | 302 | 282 |
| 6 | 125 | 176 | 42 | 505 | 184 | 0.2 | 2.6 | 1.0 | 229 | 252 | 236 |
| 7 | 125 | 246 | 59 | 700 | 255 | 0.2 | 2.6 | 1.0 | 321 | 352 | 329 |
| 8 | 125 | 342 | 75 | 891 | 325 | 0.2 | 2.3 | 0.9 | 446 | 489 | 458 |

¹ Production rates are based on a consensus of replies to a user survey.

Tight Rust or Millscale

Tables **2323**

New Steel

High Profile Range

SSPC-SP 10

RCC , RCP and PR

| Operating Conditions | | Median Production Rate ft ² /hr | Consumption Rate lbs/hr | | | Consumption Rate lbs/ft ² | | | Production Rate ft ² /hr of Blasting ¹ | | |
|----------------------|----------------|--|---------------------------|--------|---------|--------------------------------------|--------|---------|--|--------|---------|
| Nozzle Size | Pressure (psi) | | Steel Iron | Garnet | Alumina | Steel Iron | Garnet | Alumina | Steel Iron | Garnet | Alumina |
| | | 2323 | RCC With Recycling | | | | | | | | |
| 6 | 90 | 79 | 32 | 381 | 139 | 0.4 | 4.3 | 1.7 | 73 | 80 | 75 |
| 7 | 90 | 110 | 44 | 525 | 191 | 0.4 | 4.3 | 1.7 | 101 | 111 | 104 |
| 8 | 90 | 154 | 57 | 673 | 245 | 0.4 | 3.9 | 1.5 | 142 | 156 | 145 |
| 6 | 100 | 100 | 35 | 418 | 152 | 0.3 | 3.7 | 1.5 | 102 | 112 | 104 |
| 7 | 100 | 140 | 48 | 574 | 209 | 0.3 | 3.7 | 1.4 | 142 | 156 | 146 |
| 8 | 100 | 195 | 62 | 734 | 267 | 0.3 | 3.4 | 1.3 | 198 | 217 | 203 |
| 6 | 110 | 126 | 37 | 444 | 162 | 0.3 | 3.2 | 1.2 | 142 | 155 | 145 |
| 7 | 110 | 176 | 52 | 616 | 224 | 0.3 | 3.1 | 1.2 | 198 | 217 | 203 |
| 8 | 110 | 245 | 66 | 784 | 286 | 0.3 | 2.9 | 1.1 | 275 | 302 | 282 |
| 6 | 125 | 176 | 42 | 505 | 184 | 0.2 | 2.6 | 1.0 | 229 | 252 | 236 |
| 7 | 125 | 246 | 59 | 700 | 255 | 0.2 | 2.6 | 1.0 | 321 | 352 | 329 |
| 8 | 125 | 342 | 75 | 891 | 325 | 0.2 | 2.3 | 0.9 | 446 | 489 | 458 |

¹ Production rates are based on a consensus of replies to a user survey.

Tight Rust or Millscale

Tables **2323**

New Steel

High Profile Range

SSPC-SP 10

RCC , RCP and PR

| Operating Conditions | | Median Production Rate ft ² /hr | Consumption Rate lbs/hr | | | Consumption Rate lbs/ft ² | | | Production Rate ft ² /hr of Blasting ¹ | | |
|----------------------|----------------|--|---------------------------|--------|---------|--------------------------------------|--------|---------|--|--------|---------|
| Nozzle Size | Pressure (psi) | | Steel Iron | Garnet | Alumina | Steel Iron | Garnet | Alumina | Steel Iron | Garnet | Alumina |
| | | 2331 | RCC With Recycling | | | | | | | | |
| 6 | 90 | 473 | 32 | 381 | 139 | 0.1 | 0.7 | 0.3 | 435 | 478 | 447 |
| 7 | 90 | 709 | 44 | 525 | 191 | 0.1 | 0.7 | 0.3 | 653 | 716 | 670 |
| 8 | 90 | 945 | 57 | 673 | 245 | 0.1 | 0.6 | 0.2 | 870 | 954 | 893 |
| 6 | 100 | 600 | 35 | 418 | 152 | 0.1 | 0.6 | 0.2 | 610 | 669 | 626 |
| 7 | 100 | 900 | 48 | 574 | 209 | 0.1 | 0.6 | 0.2 | 915 | 1004 | 939 |
| 8 | 100 | 1200 | 62 | 734 | 267 | 0.1 | 0.5 | 0.2 | 1220 | 1338 | 1252 |
| 6 | 110 | 755 | 37 | 444 | 162 | 0.0 | 0.5 | 0.2 | 848 | 930 | 870 |
| 7 | 110 | 1132 | 52 | 616 | 224 | 0.0 | 0.5 | 0.2 | 1271 | 1395 | 1305 |
| 8 | 110 | 1510 | 66 | 784 | 286 | 0.0 | 0.5 | 0.2 | 1696 | 1860 | 1741 |
| 6 | 125 | 1051 | 42 | 505 | 184 | 0.0 | 0.4 | 0.2 | 1370 | 1503 | 1406 |
| 7 | 125 | 1578 | 59 | 700 | 255 | 0.0 | 0.4 | 0.2 | 2057 | 2257 | 2112 |
| 8 | 125 | 2104 | 75 | 891 | 325 | 0.0 | 0.4 | 0.1 | 2743 | 3010 | 2816 |

¹ Production rates are based on a consensus of replies to a user survey.

Tight Rust or Millscale

New Steel

Low Profile Range

SSPC-SP 6

Tables **2331**

RCC , RCP and PR

| Operating Conditions | | Median Production Rate ft ² /hr | Consumption Rate lbs/hr | | | Consumption Rate lbs/ft ² | | | Production Rate ft ² /hr of Blasting ¹ | | |
|----------------------|----------------|--|---------------------------|--------|---------|--------------------------------------|--------|---------|--|--------|---------|
| Nozzle Size | Pressure (psi) | | Steel Iron | Garnet | Alumina | Steel Iron | Garnet | Alumina | Steel Iron | Garnet | Alumina |
| | | 2331 | RCC With Recycling | | | | | | | | |
| 6 | 90 | 473 | 32 | 381 | 139 | 0.1 | 0.7 | 0.3 | 435 | 478 | 447 |
| 7 | 90 | 709 | 44 | 525 | 191 | 0.1 | 0.7 | 0.3 | 653 | 716 | 670 |
| 8 | 90 | 945 | 57 | 673 | 245 | 0.1 | 0.6 | 0.2 | 870 | 954 | 893 |
| 6 | 100 | 600 | 35 | 418 | 152 | 0.1 | 0.6 | 0.2 | 610 | 669 | 626 |
| 7 | 100 | 900 | 48 | 574 | 209 | 0.1 | 0.6 | 0.2 | 915 | 1004 | 939 |
| 8 | 100 | 1200 | 62 | 734 | 267 | 0.1 | 0.5 | 0.2 | 1220 | 1338 | 1252 |
| 6 | 110 | 755 | 37 | 444 | 162 | 0.0 | 0.5 | 0.2 | 848 | 930 | 870 |
| 7 | 110 | 1132 | 52 | 616 | 224 | 0.0 | 0.5 | 0.2 | 1271 | 1395 | 1305 |
| 8 | 110 | 1510 | 66 | 784 | 286 | 0.0 | 0.5 | 0.2 | 1696 | 1860 | 1741 |
| 6 | 125 | 1051 | 42 | 505 | 184 | 0.0 | 0.4 | 0.2 | 1370 | 1503 | 1406 |
| 7 | 125 | 1578 | 59 | 700 | 255 | 0.0 | 0.4 | 0.2 | 2057 | 2257 | 2112 |
| 8 | 125 | 2104 | 75 | 891 | 325 | 0.0 | 0.4 | 0.1 | 2743 | 3010 | 2816 |

¹ Production rates are based on a consensus of replies to a user survey.

Tight Rust or Millscale

New Steel

Low Profile Range

SSPC-SP 6

Tables **2331**

RCC , RCP and PR

| Operating Conditions | | Median Production Rate ft ² /hr | Consumption Rate lbs/hr | | | Consumption Rate lbs/ft ² | | | Production Rate ft ² /hr of Blasting ¹ | | |
|----------------------|----------------|--|-------------------------|--------|---------|--------------------------------------|--------|---------|--|--------|---------|
| Nozzle Size | Pressure (psi) | | Steel Iron | Garnet | Alumina | Steel Iron | Garnet | Alumina | Steel Iron | Garnet | Alumina |
| | | 2332 | RCC With Recycling | | | | | | | | |
| 6 | 90 | 315 | 32 | 381 | 139 | 0.1 | 1.1 | 0.4 | 290 | 318 | 298 |
| 7 | 90 | 473 | 44 | 525 | 191 | 0.1 | 1.0 | 0.4 | 435 | 478 | 447 |
| 8 | 90 | 630 | 57 | 673 | 245 | 0.1 | 1.0 | 0.4 | 580 | 636 | 595 |
| 6 | 100 | 400 | 35 | 418 | 152 | 0.1 | 0.9 | 0.4 | 407 | 446 | 417 |
| 7 | 100 | 600 | 48 | 574 | 209 | 0.1 | 0.9 | 0.3 | 610 | 669 | 626 |
| 8 | 100 | 800 | 62 | 734 | 267 | 0.1 | 0.8 | 0.3 | 813 | 892 | 835 |
| 6 | 110 | 503 | 37 | 444 | 162 | 0.1 | 0.8 | 0.3 | 565 | 620 | 580 |
| 7 | 110 | 755 | 52 | 616 | 224 | 0.1 | 0.7 | 0.3 | 848 | 930 | 870 |
| 8 | 110 | 1007 | 66 | 784 | 286 | 0.1 | 0.7 | 0.3 | 1131 | 1241 | 1161 |
| 6 | 125 | 701 | 42 | 505 | 184 | 0.1 | 0.6 | 0.3 | 914 | 1003 | 938 |
| 7 | 125 | 1052 | 59 | 700 | 255 | 0.1 | 0.6 | 0.2 | 1372 | 1505 | 1408 |
| 8 | 125 | 1403 | 75 | 891 | 325 | 0.1 | 0.6 | 0.2 | 1829 | 2007 | 1877 |

¹ Production rates are based on a consensus of replies to a user survey.

Tight Rust or Millscale

New Steel

Medium Profile Range

SSPC-SP 6

Tables 2332

RCC , RCP and PR

| Operating Conditions | | Median Production Rate ft ² /hr | Consumption Rate lbs/hr | | | Consumption Rate lbs/ft ² | | | Production Rate ft ² /hr of Blasting ¹ | | |
|----------------------|----------------|--|---------------------------|--------|---------|--------------------------------------|--------|---------|--|--------|---------|
| Nozzle Size | Pressure (psi) | | Steel Iron | Garnet | Alumina | Steel Iron | Garnet | Alumina | Steel Iron | Garnet | Alumina |
| | | 2332 | RCC With Recycling | | | | | | | | |
| 6 | 90 | 315 | 32 | 381 | 139 | 0.1 | 1.1 | 0.4 | 290 | 318 | 298 |
| 7 | 90 | 473 | 44 | 525 | 191 | 0.1 | 1.0 | 0.4 | 435 | 478 | 447 |
| 8 | 90 | 630 | 57 | 673 | 245 | 0.1 | 1.0 | 0.4 | 580 | 636 | 595 |
| 6 | 100 | 400 | 35 | 418 | 152 | 0.1 | 0.9 | 0.4 | 407 | 446 | 417 |
| 7 | 100 | 600 | 48 | 574 | 209 | 0.1 | 0.9 | 0.3 | 610 | 669 | 626 |
| 8 | 100 | 800 | 62 | 734 | 267 | 0.1 | 0.8 | 0.3 | 813 | 892 | 835 |
| 6 | 110 | 503 | 37 | 444 | 162 | 0.1 | 0.8 | 0.3 | 565 | 620 | 580 |
| 7 | 110 | 755 | 52 | 616 | 224 | 0.1 | 0.7 | 0.3 | 848 | 930 | 870 |
| 8 | 110 | 1007 | 66 | 784 | 286 | 0.1 | 0.7 | 0.3 | 1131 | 1241 | 1161 |
| 6 | 125 | 701 | 42 | 505 | 184 | 0.1 | 0.6 | 0.3 | 914 | 1003 | 938 |
| 7 | 125 | 1052 | 59 | 700 | 255 | 0.1 | 0.6 | 0.2 | 1372 | 1505 | 1408 |
| 8 | 125 | 1403 | 75 | 891 | 325 | 0.1 | 0.6 | 0.2 | 1829 | 2007 | 1877 |

¹ Production rates are based on a consensus of replies to a user survey.

Tight Rust or Millscale

New Steel

Medium Profile Range

SSPC-SP 6

Tables **2332**

RCC , RCP and PR

| Operating Conditions | | Median Production Rate ft ² /hr | Consumption Rate lbs/hr | | | Consumption Rate lbs/ft ² | | | Production Rate ft ² /hr of Blasting ¹ | | |
|----------------------|----------------|--|-------------------------|--------|---------|--------------------------------------|--------|---------|--|--------|---------|
| Nozzle Size | Pressure (psi) | | Steel Iron | Garnet | Alumina | Steel Iron | Garnet | Alumina | Steel Iron | Garnet | Alumina |
| | | 2333 | RCC With Recycling | | | | | | | | |
| 6 | 90 | 158 | 32 | 381 | 139 | 0.2 | 2.2 | 0.8 | 145 | 160 | 149 |
| 7 | 90 | 236 | 44 | 525 | 191 | 0.2 | 2.0 | 0.8 | 217 | 238 | 223 |
| 8 | 90 | 315 | 57 | 673 | 245 | 0.2 | 1.9 | 0.7 | 290 | 318 | 298 |
| 6 | 100 | 200 | 35 | 418 | 152 | 0.2 | 1.9 | 0.7 | 203 | 223 | 209 |
| 7 | 100 | 300 | 48 | 574 | 209 | 0.2 | 1.7 | 0.7 | 305 | 335 | 313 |
| 8 | 100 | 400 | 62 | 734 | 267 | 0.2 | 1.6 | 0.6 | 407 | 446 | 417 |
| 6 | 110 | 252 | 37 | 444 | 162 | 0.1 | 1.6 | 0.6 | 283 | 310 | 290 |
| 7 | 110 | 377 | 52 | 616 | 224 | 0.1 | 1.5 | 0.6 | 423 | 464 | 435 |
| 8 | 110 | 503 | 66 | 784 | 286 | 0.1 | 1.4 | 0.5 | 565 | 620 | 580 |
| 6 | 125 | 350 | 42 | 505 | 184 | 0.1 | 1.3 | 0.5 | 456 | 501 | 468 |
| 7 | 125 | 526 | 59 | 700 | 255 | 0.1 | 1.2 | 0.5 | 686 | 752 | 704 |
| 8 | 125 | 701 | 75 | 891 | 325 | 0.1 | 1.1 | 0.4 | 914 | 1003 | 938 |

¹ Production rates are based on a consensus of replies to a user survey.

Tight Rust or Millscale

New Steel

High Profile Range

SSPC-SP 6

Tables 2333

RCC , RCP and PR

| Operating Conditions | | Median Production Rate ft ² /hr | Consumption Rate lbs/hr | | | Consumption Rate lbs/ft ² | | | Production Rate ft ² /hr of Blasting ¹ | | |
|----------------------|----------------|--|-------------------------|--------|---------|--------------------------------------|--------|---------|--|--------|---------|
| Nozzle Size | Pressure (psi) | | Steel Iron | Garnet | Alumina | Steel Iron | Garnet | Alumina | Steel Iron | Garnet | Alumina |
| | | 2333 | RCC With Recycling | | | | | | | | |
| 6 | 90 | 158 | 32 | 381 | 139 | 0.2 | 2.2 | 0.8 | 145 | 160 | 149 |
| 7 | 90 | 236 | 44 | 525 | 191 | 0.2 | 2.0 | 0.8 | 217 | 238 | 223 |
| 8 | 90 | 315 | 57 | 673 | 245 | 0.2 | 1.9 | 0.7 | 290 | 318 | 298 |
| 6 | 100 | 200 | 35 | 418 | 152 | 0.2 | 1.9 | 0.7 | 203 | 223 | 209 |
| 7 | 100 | 300 | 48 | 574 | 209 | 0.2 | 1.7 | 0.7 | 305 | 335 | 313 |
| 8 | 100 | 400 | 62 | 734 | 267 | 0.2 | 1.6 | 0.6 | 407 | 446 | 417 |
| 6 | 110 | 252 | 37 | 444 | 162 | 0.1 | 1.6 | 0.6 | 283 | 310 | 290 |
| 7 | 110 | 377 | 52 | 616 | 224 | 0.1 | 1.5 | 0.6 | 423 | 464 | 435 |
| 8 | 110 | 503 | 66 | 784 | 286 | 0.1 | 1.4 | 0.5 | 565 | 620 | 580 |
| 6 | 125 | 350 | 42 | 505 | 184 | 0.1 | 1.3 | 0.5 | 456 | 501 | 468 |
| 7 | 125 | 526 | 59 | 700 | 255 | 0.1 | 1.2 | 0.5 | 686 | 752 | 704 |
| 8 | 125 | 701 | 75 | 891 | 325 | 0.1 | 1.1 | 0.4 | 914 | 1003 | 938 |

¹ Production rates are based on a consensus of replies to a user survey.

Tight Rust or Millscale

New Steel

High Profile Range

SSPC-SP 6

Tables 2333

RCC , RCP and PR

| Operating Conditions | | Median Production Rate ft ² /hr | Consumption Rate lbs/hr | | | Consumption Rate lbs/ft ² | | | Production Rate ft ² /hr of Blasting ¹ | | |
|----------------------|----------------|--|---------------------------|--------|---------|--------------------------------------|--------|---------|--|--------|---------|
| Nozzle Size | Pressure (psi) | | Steel Iron | Garnet | Alumina | Steel Iron | Garnet | Alumina | Steel Iron | Garnet | Alumina |
| | | 2341 | RCC With Recycling | | | | | | | | |
| 6 | 90 | 788 | 32 | 381 | 139 | 0.0 | 0.4 | 0.2 | 725 | 796 | 744 |
| 7 | 90 | 1181 | 44 | 525 | 191 | 0.0 | 0.4 | 0.2 | 1087 | 1193 | 1116 |
| 8 | 90 | 1574 | 57 | 673 | 245 | 0.0 | 0.4 | 0.1 | 1449 | 1589 | 1487 |
| 6 | 100 | 1000 | 35 | 418 | 152 | 0.0 | 0.4 | 0.1 | 1017 | 1115 | 1043 |
| 7 | 100 | 1500 | 48 | 574 | 209 | 0.0 | 0.3 | 0.1 | 1525 | 1673 | 1565 |
| 8 | 100 | 2000 | 62 | 734 | 267 | 0.0 | 0.3 | 0.1 | 2033 | 2231 | 2087 |
| 6 | 110 | 1258 | 37 | 444 | 162 | 0.0 | 0.3 | 0.1 | 1413 | 1550 | 1450 |
| 7 | 110 | 1888 | 52 | 616 | 224 | 0.0 | 0.3 | 0.1 | 2120 | 2326 | 2176 |
| 8 | 110 | 2518 | 66 | 784 | 286 | 0.0 | 0.3 | 0.1 | 2828 | 3102 | 2902 |
| 6 | 125 | 1753 | 42 | 505 | 184 | 0.0 | 0.3 | 0.1 | 2286 | 2507 | 2346 |
| 7 | 125 | 2629 | 59 | 700 | 255 | 0.0 | 0.2 | 0.1 | 3428 | 3761 | 3518 |
| 8 | 125 | 3507 | 75 | 891 | 325 | 0.0 | 0.2 | 0.1 | 4572 | 5016 | 4693 |

¹ Production rates are based on a consensus of replies to a user survey.

Tight Rust or Millscale

Tables **2341**

New Steel

Low Profile Range

SSPC-SP 7

RCC , RCP and PR

| Operating Conditions | | Median Production Rate ft ² /hr | Consumption Rate lbs/hr | | | Consumption Rate lbs/ft ² | | | Production Rate ft ² /hr of Blasting ¹ | | |
|----------------------|----------------|--|---------------------------|--------|---------|--------------------------------------|--------|---------|--|--------|---------|
| Nozzle Size | Pressure (psi) | | Steel Iron | Garnet | Alumina | Steel Iron | Garnet | Alumina | Steel Iron | Garnet | Alumina |
| | | 2341 | RCC With Recycling | | | | | | | | |
| 6 | 90 | 788 | 32 | 381 | 139 | 0.0 | 0.4 | 0.2 | 725 | 796 | 744 |
| 7 | 90 | 1181 | 44 | 525 | 191 | 0.0 | 0.4 | 0.2 | 1087 | 1193 | 1116 |
| 8 | 90 | 1574 | 57 | 673 | 245 | 0.0 | 0.4 | 0.1 | 1449 | 1589 | 1487 |
| 6 | 100 | 1000 | 35 | 418 | 152 | 0.0 | 0.4 | 0.1 | 1017 | 1115 | 1043 |
| 7 | 100 | 1500 | 48 | 574 | 209 | 0.0 | 0.3 | 0.1 | 1525 | 1673 | 1565 |
| 8 | 100 | 2000 | 62 | 734 | 267 | 0.0 | 0.3 | 0.1 | 2033 | 2231 | 2087 |
| 6 | 110 | 1258 | 37 | 444 | 162 | 0.0 | 0.3 | 0.1 | 1413 | 1550 | 1450 |
| 7 | 110 | 1888 | 52 | 616 | 224 | 0.0 | 0.3 | 0.1 | 2120 | 2326 | 2176 |
| 8 | 110 | 2518 | 66 | 784 | 286 | 0.0 | 0.3 | 0.1 | 2828 | 3102 | 2902 |
| 6 | 125 | 1753 | 42 | 505 | 184 | 0.0 | 0.3 | 0.1 | 2286 | 2507 | 2346 |
| 7 | 125 | 2629 | 59 | 700 | 255 | 0.0 | 0.2 | 0.1 | 3428 | 3761 | 3518 |
| 8 | 125 | 3507 | 75 | 891 | 325 | 0.0 | 0.2 | 0.1 | 4572 | 5016 | 4693 |

¹ Production rates are based on a consensus of replies to a user survey.

Tight Rust or Millscale

Tables **2341**

New Steel

Low Profile Range

SSPC-SP 7

RCC , RCP and PR

| Operating Conditions | | Median Production Rate ft ² /hr | Consumption Rate lbs/hr | | | Consumption Rate lbs/ft ² | | | Production Rate ft ² /hr of Blasting ¹ | | |
|----------------------|----------------|--|---------------------------|--------|---------|--------------------------------------|--------|---------|--|--------|---------|
| Nozzle Size | Pressure (psi) | | Steel Iron | Garnet | Alumina | Steel Iron | Garnet | Alumina | Steel Iron | Garnet | Alumina |
| | | 3111 | RCC With Recycling | | | | | | | | |
| 6 | 90 | 154 | 32 | 381 | 139 | 0.2 | 2.2 | 0.9 | 142 | 156 | 145 |
| 7 | 90 | 225 | 44 | 525 | 191 | 0.2 | 2.1 | 0.8 | 207 | 227 | 213 |
| 8 | 90 | 307 | 57 | 673 | 245 | 0.2 | 2.0 | 0.8 | 283 | 310 | 290 |
| 6 | 100 | 195 | 35 | 418 | 152 | 0.2 | 1.9 | 0.7 | 198 | 218 | 203 |
| 7 | 100 | 285 | 48 | 574 | 209 | 0.2 | 1.8 | 0.7 | 290 | 318 | 297 |
| 8 | 100 | 390 | 62 | 734 | 267 | 0.2 | 1.7 | 0.7 | 397 | 435 | 407 |
| 6 | 110 | 245 | 37 | 444 | 162 | 0.2 | 1.6 | 0.6 | 275 | 302 | 282 |
| 7 | 110 | 359 | 52 | 616 | 224 | 0.1 | 1.5 | 0.6 | 403 | 442 | 414 |
| 8 | 110 | 491 | 66 | 784 | 286 | 0.1 | 1.4 | 0.6 | 551 | 605 | 566 |
| 6 | 125 | 342 | 42 | 505 | 184 | 0.1 | 1.3 | 0.5 | 446 | 489 | 458 |
| 7 | 125 | 499 | 59 | 700 | 255 | 0.1 | 1.3 | 0.5 | 651 | 714 | 668 |
| 8 | 125 | 684 | 75 | 891 | 325 | 0.1 | 1.2 | 0.5 | 892 | 978 | 915 |

¹ Production rates are based on a consensus of replies to a user survey.

Thin Paint or Rusted Thin Paint

Hard Coating

Low Profile Range

SSPC-SP 5

Tables **3111**

RCC , RCP and PR

| Operating Conditions | | Median Production Rate ft ² /hr | Consumption Rate lbs/hr | | | Consumption Rate lbs/ft ² | | | Production Rate ft ² /hr of Blasting ¹ | | |
|----------------------|----------------|--|---------------------------|--------|---------|--------------------------------------|--------|---------|--|--------|---------|
| Nozzle Size | Pressure (psi) | | Steel Iron | Garnet | Alumina | Steel Iron | Garnet | Alumina | Steel Iron | Garnet | Alumina |
| | | 3112 | RCC With Recycling | | | | | | | | |
| 6 | 90 | 103 | 32 | 381 | 139 | 0.3 | 3.3 | 1.3 | 95 | 104 | 97 |
| 7 | 90 | 150 | 44 | 525 | 191 | 0.3 | 3.1 | 1.2 | 138 | 151 | 142 |
| 8 | 90 | 204 | 57 | 673 | 245 | 0.3 | 3.0 | 1.2 | 188 | 206 | 193 |
| 6 | 100 | 130 | 35 | 418 | 152 | 0.3 | 2.9 | 1.1 | 132 | 145 | 136 |
| 7 | 100 | 190 | 48 | 574 | 209 | 0.3 | 2.7 | 1.1 | 193 | 212 | 198 |
| 8 | 100 | 260 | 62 | 734 | 267 | 0.2 | 2.5 | 1.0 | 264 | 290 | 271 |
| 6 | 110 | 163 | 37 | 444 | 162 | 0.2 | 2.4 | 1.0 | 183 | 201 | 188 |
| 7 | 110 | 239 | 52 | 616 | 224 | 0.2 | 2.3 | 0.9 | 268 | 294 | 275 |
| 8 | 110 | 328 | 66 | 784 | 286 | 0.2 | 2.1 | 0.8 | 368 | 404 | 378 |
| 6 | 125 | 228 | 42 | 505 | 184 | 0.2 | 2.0 | 0.8 | 297 | 326 | 305 |
| 7 | 125 | 333 | 59 | 700 | 255 | 0.2 | 1.9 | 0.7 | 434 | 476 | 446 |
| 8 | 125 | 456 | 75 | 891 | 325 | 0.2 | 1.8 | 0.7 | 595 | 652 | 610 |

¹ Production rates are based on a consensus of replies to a user survey.

Thin Paint or Rusted Thin Paint

Tables **3112**

Hard Coating

Medium Profile Range

SSPC-SP 5

RCC , RCP and PR

| Operating Conditions | | Median Production Rate ft ² /hr | Consumption Rate lbs/hr | | | Consumption Rate lbs/ft ² | | | Production Rate ft ² /hr of Blasting ¹ | | |
|----------------------|----------------|--|---------------------------|--------|---------|--------------------------------------|--------|---------|--|--------|---------|
| Nozzle Size | Pressure (psi) | | Steel Iron | Garnet | Alumina | Steel Iron | Garnet | Alumina | Steel Iron | Garnet | Alumina |
| | | 3113 | RCC With Recycling | | | | | | | | |
| 6 | 90 | 51 | 32 | 381 | 139 | 0.6 | 6.7 | 2.6 | 47 | 51 | 48 |
| 7 | 90 | 75 | 44 | 525 | 191 | 0.6 | 6.3 | 2.4 | 69 | 76 | 71 |
| 8 | 90 | 102 | 57 | 673 | 245 | 0.5 | 5.9 | 2.3 | 94 | 103 | 96 |
| 6 | 100 | 65 | 35 | 418 | 152 | 0.5 | 5.8 | 2.2 | 66 | 73 | 68 |
| 7 | 100 | 95 | 48 | 574 | 209 | 0.5 | 5.4 | 2.1 | 97 | 106 | 99 |
| 8 | 100 | 130 | 62 | 734 | 267 | 0.5 | 5.1 | 2.0 | 132 | 145 | 136 |
| 6 | 110 | 82 | 37 | 444 | 162 | 0.4 | 4.9 | 1.9 | 92 | 101 | 95 |
| 7 | 110 | 120 | 52 | 616 | 224 | 0.4 | 4.6 | 1.8 | 135 | 148 | 138 |
| 8 | 110 | 164 | 66 | 784 | 286 | 0.4 | 4.3 | 1.7 | 184 | 202 | 189 |
| 6 | 125 | 114 | 42 | 505 | 184 | 0.4 | 4.0 | 1.5 | 149 | 163 | 153 |
| 7 | 125 | 166 | 59 | 700 | 255 | 0.3 | 3.8 | 1.5 | 216 | 237 | 222 |
| 8 | 125 | 228 | 75 | 891 | 325 | 0.3 | 3.5 | 1.4 | 297 | 326 | 305 |

¹ Production rates are based on a consensus of replies to a user survey.

Thin Paint or Rusted Thin Paint

Hard Coating

High Profile Range

SSPC-SP 5

Tables **3113**

RCC , RCP and PR

| Operating Conditions | | Median Production Rate ft ² /hr | Consumption Rate lbs/hr | | | Consumption Rate lbs/ft ² | | | Production Rate ft ² /hr of Blasting ¹ | | |
|----------------------|----------------|--|---------------------------|--------|---------|--------------------------------------|--------|---------|--|--------|---------|
| Nozzle Size | Pressure (psi) | | Steel Iron | Garnet | Alumina | Steel Iron | Garnet | Alumina | Steel Iron | Garnet | Alumina |
| | | 3121 | RCC With Recycling | | | | | | | | |
| 6 | 90 | 178 | 32 | 381 | 139 | 0.2 | 1.9 | 0.7 | 164 | 180 | 168 |
| 7 | 90 | 248 | 44 | 525 | 191 | 0.2 | 1.9 | 0.7 | 228 | 250 | 234 |
| 8 | 90 | 342 | 57 | 673 | 245 | 0.2 | 1.8 | 0.7 | 315 | 345 | 323 |
| 6 | 100 | 225 | 35 | 418 | 152 | 0.2 | 1.7 | 0.6 | 229 | 251 | 235 |
| 7 | 100 | 315 | 48 | 574 | 209 | 0.2 | 1.6 | 0.6 | 320 | 351 | 329 |
| 8 | 100 | 435 | 62 | 734 | 267 | 0.1 | 1.5 | 0.6 | 442 | 485 | 454 |
| 6 | 110 | 283 | 37 | 444 | 162 | 0.1 | 1.4 | 0.5 | 318 | 349 | 326 |
| 7 | 110 | 396 | 52 | 616 | 224 | 0.1 | 1.4 | 0.5 | 445 | 488 | 456 |
| 8 | 110 | 548 | 66 | 784 | 286 | 0.1 | 1.3 | 0.5 | 615 | 675 | 632 |
| 6 | 125 | 395 | 42 | 505 | 184 | 0.1 | 1.1 | 0.4 | 515 | 565 | 529 |
| 7 | 125 | 552 | 59 | 700 | 255 | 0.1 | 1.1 | 0.4 | 720 | 790 | 739 |
| 8 | 125 | 762 | 75 | 891 | 325 | 0.1 | 1.0 | 0.4 | 994 | 1090 | 1020 |

¹ Production rates are based on a consensus of replies to a user survey.

Thin Paint or Rusted Thin Paint

Tables **3121**

Hard Coating

Low Profile Range

SSPC-SP 10

RCC , RCP and PR

| Operating Conditions | | Median Production Rate ft ² /hr | Consumption Rate lbs/hr | | | Consumption Rate lbs/ft ² | | | Production Rate ft ² /hr of Blasting ¹ | | |
|----------------------|----------------|--|---------------------------|--------|---------|--------------------------------------|--------|---------|--|--------|---------|
| Nozzle Size | Pressure (psi) | | Steel Iron | Garnet | Alumina | Steel Iron | Garnet | Alumina | Steel Iron | Garnet | Alumina |
| | | 3122 | RCC With Recycling | | | | | | | | |
| 6 | 90 | 118 | 32 | 381 | 139 | 0.3 | 2.9 | 1.1 | 109 | 119 | 111 |
| 7 | 90 | 165 | 44 | 525 | 191 | 0.3 | 2.9 | 1.1 | 152 | 167 | 156 |
| 8 | 90 | 228 | 57 | 673 | 245 | 0.2 | 2.6 | 1.0 | 210 | 230 | 215 |
| 6 | 100 | 150 | 35 | 418 | 152 | 0.2 | 2.5 | 1.0 | 153 | 167 | 157 |
| 7 | 100 | 210 | 48 | 574 | 209 | 0.2 | 2.5 | 1.0 | 214 | 234 | 219 |
| 8 | 100 | 290 | 62 | 734 | 267 | 0.2 | 2.3 | 0.9 | 295 | 323 | 303 |
| 6 | 110 | 188 | 37 | 444 | 162 | 0.2 | 2.1 | 0.8 | 211 | 232 | 217 |
| 7 | 110 | 264 | 52 | 616 | 224 | 0.2 | 2.1 | 0.8 | 296 | 325 | 304 |
| 8 | 110 | 365 | 66 | 784 | 286 | 0.2 | 1.9 | 0.7 | 410 | 450 | 421 |
| 6 | 125 | 263 | 42 | 505 | 184 | 0.2 | 1.7 | 0.7 | 343 | 376 | 352 |
| 7 | 125 | 368 | 59 | 700 | 255 | 0.2 | 1.7 | 0.7 | 480 | 526 | 492 |
| 8 | 125 | 508 | 75 | 891 | 325 | 0.1 | 1.6 | 0.6 | 662 | 727 | 680 |

¹ Production rates are based on a consensus of replies to a user survey.

Thin Paint or Rusted Thin Paint

Hard Coating

Medium Profile Range

SSPC-SP 10

Tables **3122**

RCC , RCP and PR

| Operating Conditions | | Median Production Rate ft ² /hr | Consumption Rate lbs/hr | | | Consumption Rate lbs/ft ² | | | Production Rate ft ² /hr of Blasting ¹ | | |
|----------------------|----------------|--|---------------------------|--------|---------|--------------------------------------|--------|---------|--|--------|---------|
| Nozzle Size | Pressure (psi) | | Steel Iron | Garnet | Alumina | Steel Iron | Garnet | Alumina | Steel Iron | Garnet | Alumina |
| | | 3123 | RCC With Recycling | | | | | | | | |
| 6 | 90 | 59 | 32 | 381 | 139 | 0.5 | 5.8 | 2.3 | 54 | 60 | 56 |
| 7 | 90 | 83 | 44 | 525 | 191 | 0.5 | 5.7 | 2.2 | 76 | 84 | 78 |
| 8 | 90 | 114 | 57 | 673 | 245 | 0.5 | 5.3 | 2.1 | 105 | 115 | 108 |
| 6 | 100 | 75 | 35 | 418 | 152 | 0.5 | 5.0 | 1.9 | 76 | 84 | 78 |
| 7 | 100 | 105 | 48 | 574 | 209 | 0.5 | 4.9 | 1.9 | 107 | 117 | 110 |
| 8 | 100 | 145 | 62 | 734 | 267 | 0.4 | 4.5 | 1.8 | 147 | 162 | 151 |
| 6 | 110 | 94 | 37 | 444 | 162 | 0.4 | 4.2 | 1.6 | 106 | 116 | 108 |
| 7 | 110 | 132 | 52 | 616 | 224 | 0.4 | 4.2 | 1.6 | 148 | 163 | 152 |
| 8 | 110 | 183 | 66 | 784 | 286 | 0.4 | 3.8 | 1.5 | 206 | 225 | 211 |
| 6 | 125 | 132 | 42 | 505 | 184 | 0.3 | 3.4 | 1.3 | 172 | 189 | 177 |
| 7 | 125 | 184 | 59 | 700 | 255 | 0.3 | 3.4 | 1.3 | 240 | 263 | 246 |
| 8 | 125 | 254 | 75 | 891 | 325 | 0.3 | 3.1 | 1.2 | 331 | 363 | 340 |

¹ Production rates are based on a consensus of replies to a user survey.

Thin Paint or Rusted Thin Paint

Hard Coating

High Profile Range

SSPC-SP 10

Tables **3123**

RCC , RCP and PR

| Operating Conditions | | Median Production Rate ft ² /hr | Consumption Rate lbs/hr | | | Consumption Rate lbs/ft ² | | | Production Rate ft ² /hr of Blasting ¹ | | |
|----------------------|----------------|--|---------------------------|--------|---------|--------------------------------------|--------|---------|--|--------|---------|
| Nozzle Size | Pressure (psi) | | Steel Iron | Garnet | Alumina | Steel Iron | Garnet | Alumina | Steel Iron | Garnet | Alumina |
| | | 3131 | RCC With Recycling | | | | | | | | |
| 6 | 90 | 354 | 32 | 381 | 139 | 0.1 | 1.0 | 0.4 | 326 | 357 | 334 |
| 7 | 90 | 531 | 44 | 525 | 191 | 0.1 | 0.9 | 0.3 | 489 | 536 | 502 |
| 8 | 90 | 709 | 57 | 673 | 245 | 0.1 | 0.9 | 0.3 | 653 | 716 | 670 |
| 6 | 100 | 450 | 35 | 418 | 152 | 0.1 | 0.8 | 0.3 | 458 | 502 | 470 |
| 7 | 100 | 675 | 48 | 574 | 209 | 0.1 | 0.8 | 0.3 | 686 | 753 | 704 |
| 8 | 100 | 900 | 62 | 734 | 267 | 0.1 | 0.7 | 0.3 | 915 | 1004 | 939 |
| 6 | 110 | 567 | 37 | 444 | 162 | 0.1 | 0.7 | 0.3 | 637 | 699 | 654 |
| 7 | 110 | 850 | 52 | 616 | 224 | 0.1 | 0.6 | 0.3 | 955 | 1047 | 980 |
| 8 | 110 | 1132 | 66 | 784 | 286 | 0.1 | 0.6 | 0.2 | 1271 | 1395 | 1305 |
| 6 | 125 | 788 | 42 | 505 | 184 | 0.1 | 0.6 | 0.2 | 1027 | 1127 | 1054 |
| 7 | 125 | 1183 | 59 | 700 | 255 | 0.0 | 0.5 | 0.2 | 1542 | 1692 | 1583 |
| 8 | 125 | 1578 | 75 | 891 | 325 | 0.0 | 0.5 | 0.2 | 2057 | 2257 | 2112 |

¹ Production rates are based on a consensus of replies to a user survey.

Thin Paint or Rusted Thin Paint

Tables **3131**

Hard Coating

Low Profile Range

SSPC-SP 6

RCC , RCP and PR

| Operating Conditions | | Median Production Rate ft ² /hr | Consumption Rate lbs/hr | | | Consumption Rate lbs/ft ² | | | Production Rate ft ² /hr of Blasting ¹ | | |
|----------------------|----------------|--|---------------------------|--------|---------|--------------------------------------|--------|---------|--|--------|---------|
| Nozzle Size | Pressure (psi) | | Steel Iron | Garnet | Alumina | Steel Iron | Garnet | Alumina | Steel Iron | Garnet | Alumina |
| | | 3132 | RCC With Recycling | | | | | | | | |
| 6 | 90 | 236 | 32 | 381 | 139 | 0.1 | 1.4 | 0.6 | 217 | 238 | 223 |
| 7 | 90 | 354 | 44 | 525 | 191 | 0.1 | 1.3 | 0.5 | 326 | 357 | 334 |
| 8 | 90 | 473 | 57 | 673 | 245 | 0.1 | 1.3 | 0.5 | 435 | 478 | 447 |
| 6 | 100 | 300 | 35 | 418 | 152 | 0.1 | 1.2 | 0.5 | 305 | 335 | 313 |
| 7 | 100 | 450 | 48 | 574 | 209 | 0.1 | 1.1 | 0.4 | 458 | 502 | 470 |
| 8 | 100 | 600 | 62 | 734 | 267 | 0.1 | 1.1 | 0.4 | 610 | 669 | 626 |
| 6 | 110 | 378 | 37 | 444 | 162 | 0.1 | 1.1 | 0.4 | 425 | 466 | 436 |
| 7 | 110 | 567 | 52 | 616 | 224 | 0.1 | 1.0 | 0.4 | 637 | 699 | 654 |
| 8 | 110 | 755 | 66 | 784 | 286 | 0.1 | 0.9 | 0.4 | 848 | 930 | 870 |
| 6 | 125 | 525 | 42 | 505 | 184 | 0.1 | 0.9 | 0.3 | 684 | 751 | 703 |
| 7 | 125 | 789 | 59 | 700 | 255 | 0.1 | 0.8 | 0.3 | 1029 | 1129 | 1056 |
| 8 | 125 | 1052 | 75 | 891 | 325 | 0.1 | 0.8 | 0.3 | 1372 | 1505 | 1408 |

¹ Production rates are based on a consensus of replies to a user survey.

Thin Paint or Rusted Thin Paint

Hard Coating

Medium Profile Range

SSPC-SP 6

Tables **3132**

RCC , RCP and PR

| Operating Conditions | | Median Production Rate ft ² /hr | Consumption Rate lbs/hr | | | Consumption Rate lbs/ft ² | | | Production Rate ft ² /hr of Blasting ¹ | | |
|----------------------|----------------|--|---------------------------|--------|---------|--------------------------------------|--------|---------|--|--------|---------|
| Nozzle Size | Pressure (psi) | | Steel Iron | Garnet | Alumina | Steel Iron | Garnet | Alumina | Steel Iron | Garnet | Alumina |
| | | 3133 | RCC With Recycling | | | | | | | | |
| 6 | 90 | 118 | 32 | 381 | 139 | 0.3 | 2.9 | 1.1 | 109 | 119 | 111 |
| 7 | 90 | 177 | 44 | 525 | 191 | 0.2 | 2.7 | 1.0 | 163 | 179 | 167 |
| 8 | 90 | 236 | 57 | 673 | 245 | 0.2 | 2.6 | 1.0 | 217 | 238 | 223 |
| 6 | 100 | 150 | 35 | 418 | 152 | 0.2 | 2.5 | 1.0 | 153 | 167 | 157 |
| 7 | 100 | 225 | 48 | 574 | 209 | 0.2 | 2.3 | 0.9 | 229 | 251 | 235 |
| 8 | 100 | 300 | 62 | 734 | 267 | 0.2 | 2.2 | 0.9 | 305 | 335 | 313 |
| 6 | 110 | 189 | 37 | 444 | 162 | 0.2 | 2.1 | 0.8 | 212 | 233 | 218 |
| 7 | 110 | 283 | 52 | 616 | 224 | 0.2 | 2.0 | 0.8 | 318 | 349 | 326 |
| 8 | 110 | 377 | 66 | 784 | 286 | 0.2 | 1.9 | 0.7 | 423 | 464 | 435 |
| 6 | 125 | 263 | 42 | 505 | 184 | 0.2 | 1.7 | 0.7 | 343 | 376 | 352 |
| 7 | 125 | 394 | 59 | 700 | 255 | 0.1 | 1.6 | 0.6 | 514 | 564 | 527 |
| 8 | 125 | 526 | 75 | 891 | 325 | 0.1 | 1.5 | 0.6 | 686 | 752 | 704 |

¹ Production rates are based on a consensus of replies to a user survey.

Thin Paint or Rusted Thin Paint

Hard Coating

High Profile Range

SSPC-SP 6

Tables **3133**

RCC , RCP and PR

| Operating Conditions | | Median Production Rate ft ² /hr | Consumption Rate lbs/hr | | | Consumption Rate lbs/ft ² | | | Production Rate ft ² /hr of Blasting ¹ | | |
|----------------------|----------------|--|---------------------------|--------|---------|--------------------------------------|--------|---------|--|--------|---------|
| Nozzle Size | Pressure (psi) | | Steel Iron | Garnet | Alumina | Steel Iron | Garnet | Alumina | Steel Iron | Garnet | Alumina |
| | | 3141 | RCC With Recycling | | | | | | | | |
| 6 | 90 | 788 | 32 | 381 | 139 | 0.0 | 0.4 | 0.2 | 725 | 796 | 744 |
| 7 | 90 | 1181 | 44 | 525 | 191 | 0.0 | 0.4 | 0.2 | 1087 | 1193 | 1116 |
| 8 | 90 | 1574 | 57 | 673 | 245 | 0.0 | 0.4 | 0.1 | 1449 | 1589 | 1487 |
| 6 | 100 | 1000 | 35 | 418 | 152 | 0.0 | 0.4 | 0.1 | 1017 | 1115 | 1043 |
| 7 | 100 | 1500 | 48 | 574 | 209 | 0.0 | 0.3 | 0.1 | 1525 | 1673 | 1565 |
| 8 | 100 | 2000 | 62 | 734 | 267 | 0.0 | 0.3 | 0.1 | 2033 | 2231 | 2087 |
| 6 | 110 | 1258 | 37 | 444 | 162 | 0.0 | 0.3 | 0.1 | 1413 | 1550 | 1450 |
| 7 | 110 | 1888 | 52 | 616 | 224 | 0.0 | 0.3 | 0.1 | 2120 | 2326 | 2176 |
| 8 | 110 | 2518 | 66 | 784 | 286 | 0.0 | 0.3 | 0.1 | 2828 | 3102 | 2902 |
| 6 | 125 | 1753 | 42 | 505 | 184 | 0.0 | 0.3 | 0.1 | 2286 | 2507 | 2346 |
| 7 | 125 | 2629 | 59 | 700 | 255 | 0.0 | 0.2 | 0.1 | 3428 | 3761 | 3518 |
| 8 | 125 | 3507 | 75 | 891 | 325 | 0.0 | 0.2 | 0.1 | 4572 | 5016 | 4693 |

¹ Production rates are based on a consensus of replies to a user survey.

Thin Paint or Rusted Thin Paint

Tables **3141**

Hard Coating

Low Profile Range

SSPC-SP 7

RCC , RCP and PR

| Operating Conditions | | Median Production Rate ft ² /hr | Consumption Rate lbs/hr | | | Consumption Rate lbs/ft ² | | | Production Rate ft ² /hr of Blasting ¹ | | |
|----------------------|----------------|--|---------------------------|--------|---------|--------------------------------------|--------|---------|--|--------|---------|
| Nozzle Size | Pressure (psi) | | Steel Iron | Garnet | Alumina | Steel Iron | Garnet | Alumina | Steel Iron | Garnet | Alumina |
| | | 3211 | RCC With Recycling | | | | | | | | |
| 6 | 90 | 231 | 32 | 381 | 139 | 0.1 | 1.5 | 0.6 | 213 | 233 | 218 |
| 7 | 90 | 337 | 44 | 525 | 191 | 0.1 | 1.4 | 0.5 | 310 | 340 | 318 |
| 8 | 90 | 460 | 57 | 673 | 245 | 0.1 | 1.3 | 0.5 | 423 | 464 | 435 |
| 6 | 100 | 293 | 35 | 418 | 152 | 0.1 | 1.3 | 0.5 | 298 | 327 | 306 |
| 7 | 100 | 428 | 48 | 574 | 209 | 0.1 | 1.2 | 0.5 | 435 | 477 | 447 |
| 8 | 100 | 585 | 62 | 734 | 267 | 0.1 | 1.1 | 0.4 | 595 | 652 | 610 |
| 6 | 110 | 367 | 37 | 444 | 162 | 0.1 | 1.1 | 0.4 | 412 | 452 | 423 |
| 7 | 110 | 538 | 52 | 616 | 224 | 0.1 | 1.0 | 0.4 | 604 | 663 | 620 |
| 8 | 110 | 737 | 66 | 784 | 286 | 0.1 | 1.0 | 0.4 | 828 | 908 | 850 |
| 6 | 125 | 513 | 42 | 505 | 184 | 0.1 | 0.9 | 0.3 | 669 | 734 | 686 |
| 7 | 125 | 749 | 59 | 700 | 255 | 0.1 | 0.8 | 0.3 | 977 | 1071 | 1002 |
| 8 | 125 | 1026 | 75 | 891 | 325 | 0.1 | 0.8 | 0.3 | 1338 | 1468 | 1373 |

¹ Production rates are based on a consensus of replies to a user survey.

Thin Paint or Rusted Thin Paint

Tables **3211**

Soft Coating

Low Profile Range

SSPC-SP 5

RCC , RCP and PR

| Operating Conditions | | Median Production Rate ft ² /hr | Consumption Rate lbs/hr | | | Consumption Rate lbs/ft ² | | | Production Rate ft ² /hr of Blasting ¹ | | |
|----------------------|----------------|--|---------------------------|--------|---------|--------------------------------------|--------|---------|--|--------|---------|
| Nozzle Size | Pressure (psi) | | Steel Iron | Garnet | Alumina | Steel Iron | Garnet | Alumina | Steel Iron | Garnet | Alumina |
| | | 3212 | RCC With Recycling | | | | | | | | |
| 6 | 90 | 154 | 32 | 381 | 139 | 0.2 | 2.2 | 0.9 | 142 | 156 | 145 |
| 7 | 90 | 225 | 44 | 525 | 191 | 0.2 | 2.1 | 0.8 | 207 | 227 | 213 |
| 8 | 90 | 307 | 57 | 673 | 245 | 0.2 | 2.0 | 0.8 | 283 | 310 | 290 |
| 6 | 100 | 195 | 35 | 418 | 152 | 0.2 | 1.9 | 0.7 | 198 | 218 | 203 |
| 7 | 100 | 285 | 48 | 574 | 209 | 0.2 | 1.8 | 0.7 | 290 | 318 | 297 |
| 8 | 100 | 390 | 62 | 734 | 267 | 0.2 | 1.7 | 0.7 | 397 | 435 | 407 |
| 6 | 110 | 245 | 37 | 444 | 162 | 0.2 | 1.6 | 0.6 | 275 | 302 | 282 |
| 7 | 110 | 359 | 52 | 616 | 224 | 0.1 | 1.5 | 0.6 | 403 | 442 | 414 |
| 8 | 110 | 491 | 66 | 784 | 286 | 0.1 | 1.4 | 0.6 | 551 | 605 | 566 |
| 6 | 125 | 342 | 42 | 505 | 184 | 0.1 | 1.3 | 0.5 | 446 | 489 | 458 |
| 7 | 125 | 499 | 59 | 700 | 255 | 0.1 | 1.3 | 0.5 | 651 | 714 | 668 |
| 8 | 125 | 684 | 75 | 891 | 325 | 0.1 | 1.2 | 0.5 | 892 | 978 | 915 |

¹ Production rates are based on a consensus of replies to a user survey.

Thin Paint or Rusted Thin Paint

Soft Coating

Medium Profile Range

SSPC-SP 5

Tables **3212**

RCC , RCP and PR

| Operating Conditions | | Median Production Rate ft ² /hr | Consumption Rate lbs/hr | | | Consumption Rate lbs/ft ² | | | Production Rate ft ² /hr of Blasting ¹ | | |
|----------------------|----------------|--|-------------------------|--------|---------|--------------------------------------|--------|---------|--|--------|---------|
| Nozzle Size | Pressure (psi) | | Steel Iron | Garnet | Alumina | Steel Iron | Garnet | Alumina | Steel Iron | Garnet | Alumina |
| | | 3213 | RCC With Recycling | | | | | | | | |
| 6 | 90 | 77 | 32 | 381 | 139 | 0.4 | 4.4 | 1.7 | 71 | 78 | 73 |
| 7 | 90 | 112 | 44 | 525 | 191 | 0.4 | 4.2 | 1.6 | 103 | 113 | 106 |
| 8 | 90 | 153 | 57 | 673 | 245 | 0.4 | 3.9 | 1.5 | 141 | 154 | 145 |
| 6 | 100 | 98 | 35 | 418 | 152 | 0.4 | 3.8 | 1.5 | 100 | 109 | 102 |
| 7 | 100 | 143 | 48 | 574 | 209 | 0.3 | 3.6 | 1.4 | 145 | 160 | 149 |
| 8 | 100 | 195 | 62 | 734 | 267 | 0.3 | 3.4 | 1.3 | 198 | 217 | 203 |
| 6 | 110 | 122 | 37 | 444 | 162 | 0.3 | 3.3 | 1.3 | 137 | 150 | 141 |
| 7 | 110 | 179 | 52 | 616 | 224 | 0.3 | 3.1 | 1.2 | 201 | 221 | 206 |
| 8 | 110 | 246 | 66 | 784 | 286 | 0.3 | 2.9 | 1.1 | 276 | 303 | 284 |
| 6 | 125 | 171 | 42 | 505 | 184 | 0.2 | 2.6 | 1.0 | 223 | 245 | 229 |
| 7 | 125 | 250 | 59 | 700 | 255 | 0.2 | 2.5 | 1.0 | 326 | 358 | 335 |
| 8 | 125 | 342 | 75 | 891 | 325 | 0.2 | 2.3 | 0.9 | 446 | 489 | 458 |

¹ Production rates are based on a consensus of replies to a user survey.

Thin Paint or Rusted Thin Paint

Tables 3213

Soft Coating

High Profile Range

SSPC-SP 5

RCC , RCP and PR

| Operating Conditions | | Median Production Rate ft ² /hr | Consumption Rate lbs/hr | | | Consumption Rate lbs/ft ² | | | Production Rate ft ² /hr of Blasting ¹ | | |
|----------------------|----------------|--|---------------------------|--------|---------|--------------------------------------|--------|---------|--|--------|---------|
| Nozzle Size | Pressure (psi) | | Steel Iron | Garnet | Alumina | Steel Iron | Garnet | Alumina | Steel Iron | Garnet | Alumina |
| | | 3221 | RCC With Recycling | | | | | | | | |
| 6 | 90 | 266 | 32 | 381 | 139 | 0.1 | 1.3 | 0.5 | 245 | 269 | 251 |
| 7 | 90 | 372 | 44 | 525 | 191 | 0.1 | 1.3 | 0.5 | 342 | 376 | 351 |
| 8 | 90 | 513 | 57 | 673 | 245 | 0.1 | 1.2 | 0.5 | 472 | 518 | 485 |
| 6 | 100 | 338 | 35 | 418 | 152 | 0.1 | 1.1 | 0.4 | 344 | 377 | 353 |
| 7 | 100 | 473 | 48 | 574 | 209 | 0.1 | 1.1 | 0.4 | 481 | 528 | 494 |
| 8 | 100 | 653 | 62 | 734 | 267 | 0.1 | 1.0 | 0.4 | 664 | 728 | 681 |
| 6 | 110 | 424 | 37 | 444 | 162 | 0.1 | 0.9 | 0.4 | 476 | 522 | 489 |
| 7 | 110 | 595 | 52 | 616 | 224 | 0.1 | 0.9 | 0.4 | 668 | 733 | 686 |
| 8 | 110 | 822 | 66 | 784 | 286 | 0.1 | 0.9 | 0.3 | 923 | 1013 | 947 |
| 6 | 125 | 592 | 42 | 505 | 184 | 0.1 | 0.8 | 0.3 | 772 | 847 | 792 |
| 7 | 125 | 828 | 59 | 700 | 255 | 0.1 | 0.8 | 0.3 | 1080 | 1184 | 1108 |
| 8 | 125 | 1143 | 75 | 891 | 325 | 0.1 | 0.7 | 0.3 | 1490 | 1635 | 1530 |

¹ Production rates are based on a consensus of replies to a user survey.

Thin Paint or Rusted Thin Paint

Tables **3221**

Soft Coating

Low Profile Range

SSPC-SP 10

RCC , RCP and PR

| Operating Conditions | | Median Production Rate ft ² /hr | Consumption Rate lbs/hr | | | Consumption Rate lbs/ft ² | | | Production Rate ft ² /hr of Blasting ¹ | | |
|----------------------|----------------|--|-------------------------|--------|---------|--------------------------------------|--------|---------|--|--------|---------|
| Nozzle Size | Pressure (psi) | | Steel Iron | Garnet | Alumina | Steel Iron | Garnet | Alumina | Steel Iron | Garnet | Alumina |
| | | 3222 | RCC With Recycling | | | | | | | | |
| 6 | 90 | 178 | 32 | 381 | 139 | 0.2 | 1.9 | 0.7 | 164 | 180 | 168 |
| 7 | 90 | 248 | 44 | 525 | 191 | 0.2 | 1.9 | 0.7 | 228 | 250 | 234 |
| 8 | 90 | 342 | 57 | 673 | 245 | 0.2 | 1.8 | 0.7 | 315 | 345 | 323 |
| 6 | 100 | 225 | 35 | 418 | 152 | 0.2 | 1.7 | 0.6 | 229 | 251 | 235 |
| 7 | 100 | 315 | 48 | 574 | 209 | 0.2 | 1.6 | 0.6 | 320 | 351 | 329 |
| 8 | 100 | 435 | 62 | 734 | 267 | 0.1 | 1.5 | 0.6 | 442 | 485 | 454 |
| 6 | 110 | 283 | 37 | 444 | 162 | 0.1 | 1.4 | 0.5 | 318 | 349 | 326 |
| 7 | 110 | 396 | 52 | 616 | 224 | 0.1 | 1.4 | 0.5 | 445 | 488 | 456 |
| 8 | 110 | 548 | 66 | 784 | 286 | 0.1 | 1.3 | 0.5 | 615 | 675 | 632 |
| 6 | 125 | 395 | 42 | 505 | 184 | 0.1 | 1.1 | 0.4 | 515 | 565 | 529 |
| 7 | 125 | 552 | 59 | 700 | 255 | 0.1 | 1.1 | 0.4 | 720 | 790 | 739 |
| 8 | 125 | 762 | 75 | 891 | 325 | 0.1 | 1.0 | 0.4 | 994 | 1090 | 1020 |

¹ Production rates are based on a consensus of replies to a user survey.

Thin Paint or Rusted Thin Paint

Tables 3222

Soft Coating

Medium Profile Range

SSPC-SP 10

RCC , RCP and PR

| Operating Conditions | | Median Production Rate ft ² /hr | Consumption Rate lbs/hr | | | Consumption Rate lbs/ft ² | | | Production Rate ft ² /hr of Blasting ¹ | | |
|----------------------|----------------|--|---------------------------|--------|---------|--------------------------------------|--------|---------|--|--------|---------|
| Nozzle Size | Pressure (psi) | | Steel Iron | Garnet | Alumina | Steel Iron | Garnet | Alumina | Steel Iron | Garnet | Alumina |
| | | 3223 | RCC With Recycling | | | | | | | | |
| 6 | 90 | 89 | 32 | 381 | 139 | 0.4 | 3.8 | 1.5 | 82 | 90 | 84 |
| 7 | 90 | 124 | 44 | 525 | 191 | 0.4 | 3.8 | 1.5 | 114 | 125 | 117 |
| 8 | 90 | 171 | 57 | 673 | 245 | 0.3 | 3.5 | 1.4 | 157 | 173 | 162 |
| 6 | 100 | 113 | 35 | 418 | 152 | 0.3 | 3.3 | 1.3 | 115 | 126 | 118 |
| 7 | 100 | 158 | 48 | 574 | 209 | 0.3 | 3.3 | 1.3 | 161 | 176 | 165 |
| 8 | 100 | 218 | 62 | 734 | 267 | 0.3 | 3.0 | 1.2 | 222 | 243 | 227 |
| 6 | 110 | 141 | 37 | 444 | 162 | 0.3 | 2.8 | 1.1 | 158 | 174 | 163 |
| 7 | 110 | 198 | 52 | 616 | 224 | 0.3 | 2.8 | 1.1 | 222 | 244 | 228 |
| 8 | 110 | 274 | 66 | 784 | 286 | 0.2 | 2.6 | 1.0 | 308 | 338 | 316 |
| 6 | 125 | 197 | 42 | 505 | 184 | 0.2 | 2.3 | 0.9 | 257 | 282 | 264 |
| 7 | 125 | 276 | 59 | 700 | 255 | 0.2 | 2.3 | 0.9 | 360 | 395 | 369 |
| 8 | 125 | 381 | 75 | 891 | 325 | 0.2 | 2.1 | 0.8 | 497 | 545 | 510 |

¹ Production rates are based on a consensus of replies to a user survey.

Thin Paint or Rusted Thin Paint

Tables **3223**

Soft Coating

High Profile Range

SSPC-SP 10

RCC , RCP and PR

| Operating Conditions | | Median Production Rate ft ² /hr | Consumption Rate lbs/hr | | | Consumption Rate lbs/ft ² | | | Production Rate ft ² /hr of Blasting ¹ | | |
|----------------------|----------------|--|-------------------------|--------|---------|--------------------------------------|--------|---------|--|--------|---------|
| Nozzle Size | Pressure (psi) | | Steel Iron | Garnet | Alumina | Steel Iron | Garnet | Alumina | Steel Iron | Garnet | Alumina |
| | | 3231 | RCC With Recycling | | | | | | | | |
| 6 | 90 | 531 | 32 | 381 | 139 | 0.1 | 0.6 | 0.3 | 489 | 536 | 502 |
| 7 | 90 | 797 | 44 | 525 | 191 | 0.1 | 0.6 | 0.2 | 734 | 805 | 753 |
| 8 | 90 | 1063 | 57 | 673 | 245 | 0.1 | 0.6 | 0.2 | 978 | 1073 | 1004 |
| 6 | 100 | 675 | 35 | 418 | 152 | 0.1 | 0.6 | 0.2 | 686 | 753 | 704 |
| 7 | 100 | 1013 | 48 | 574 | 209 | 0.0 | 0.5 | 0.2 | 1030 | 1130 | 1057 |
| 8 | 100 | 1350 | 62 | 734 | 267 | 0.0 | 0.5 | 0.2 | 1373 | 1506 | 1409 |
| 6 | 110 | 851 | 37 | 444 | 162 | 0.0 | 0.5 | 0.2 | 956 | 1048 | 981 |
| 7 | 110 | 1275 | 52 | 616 | 224 | 0.0 | 0.4 | 0.2 | 1432 | 1571 | 1470 |
| 8 | 110 | 1699 | 66 | 784 | 286 | 0.0 | 0.4 | 0.2 | 1908 | 2093 | 1958 |
| 6 | 125 | 1182 | 42 | 505 | 184 | 0.0 | 0.4 | 0.1 | 1541 | 1691 | 1582 |
| 7 | 125 | 1774 | 59 | 700 | 255 | 0.0 | 0.4 | 0.1 | 2313 | 2538 | 2374 |
| 8 | 125 | 2367 | 75 | 891 | 325 | 0.0 | 0.3 | 0.1 | 3086 | 3386 | 3167 |

¹ Production rates are based on a consensus of replies to a user survey.

Thin Paint or Rusted Thin Paint

Tables 3231

Soft Coating

Low Profile Range

SSPC-SP 6

RCC , RCP and PR

| Operating Conditions | | Median Production Rate ft ² /hr | Consumption Rate lbs/hr | | | Consumption Rate lbs/ft ² | | | Production Rate ft ² /hr of Blasting ¹ | | |
|----------------------|----------------|--|-------------------------|--------|---------|--------------------------------------|--------|---------|--|--------|---------|
| Nozzle Size | Pressure (psi) | | Steel Iron | Garnet | Alumina | Steel Iron | Garnet | Alumina | Steel Iron | Garnet | Alumina |
| | | 3232 | RCC With Recycling | | | | | | | | |
| 6 | 90 | 354 | 32 | 381 | 139 | 0.1 | 1.0 | 0.4 | 326 | 357 | 334 |
| 7 | 90 | 531 | 44 | 525 | 191 | 0.1 | 0.9 | 0.3 | 489 | 536 | 502 |
| 8 | 90 | 709 | 57 | 673 | 245 | 0.1 | 0.9 | 0.3 | 653 | 716 | 670 |
| 6 | 100 | 450 | 35 | 418 | 152 | 0.1 | 0.8 | 0.3 | 458 | 502 | 470 |
| 7 | 100 | 675 | 48 | 574 | 209 | 0.1 | 0.8 | 0.3 | 686 | 753 | 704 |
| 8 | 100 | 900 | 62 | 734 | 267 | 0.1 | 0.7 | 0.3 | 915 | 1004 | 939 |
| 6 | 110 | 567 | 37 | 444 | 162 | 0.1 | 0.7 | 0.3 | 637 | 699 | 654 |
| 7 | 110 | 850 | 52 | 616 | 224 | 0.1 | 0.6 | 0.3 | 955 | 1047 | 980 |
| 8 | 110 | 1132 | 66 | 784 | 286 | 0.1 | 0.6 | 0.2 | 1271 | 1395 | 1305 |
| 6 | 125 | 788 | 42 | 505 | 184 | 0.1 | 0.6 | 0.2 | 1027 | 1127 | 1054 |
| 7 | 125 | 1183 | 59 | 700 | 255 | 0.0 | 0.5 | 0.2 | 1542 | 1692 | 1583 |
| 8 | 125 | 1578 | 75 | 891 | 325 | 0.0 | 0.5 | 0.2 | 2057 | 2257 | 2112 |

¹ Production rates are based on a consensus of replies to a user survey.

Thin Paint or Rusted Thin Paint

Tables 3232

Soft Coating

Medium Profile Range

SSPC-SP 6

RCC , RCP and PR

| Operating Conditions | | Median Production Rate ft ² /hr | Consumption Rate lbs/hr | | | Consumption Rate lbs/ft ² | | | Production Rate ft ² /hr of Blasting ¹ | | |
|----------------------|----------------|--|---------------------------|--------|---------|--------------------------------------|--------|---------|--|--------|---------|
| Nozzle Size | Pressure (psi) | | Steel Iron | Garnet | Alumina | Steel Iron | Garnet | Alumina | Steel Iron | Garnet | Alumina |
| | | 3233 | RCC With Recycling | | | | | | | | |
| 6 | 90 | 177 | 32 | 381 | 139 | 0.2 | 1.9 | 0.8 | 163 | 179 | 167 |
| 7 | 90 | 266 | 44 | 525 | 191 | 0.2 | 1.8 | 0.7 | 245 | 269 | 251 |
| 8 | 90 | 354 | 57 | 673 | 245 | 0.2 | 1.7 | 0.7 | 326 | 357 | 334 |
| 6 | 100 | 225 | 35 | 418 | 152 | 0.2 | 1.7 | 0.6 | 229 | 251 | 235 |
| 7 | 100 | 338 | 48 | 574 | 209 | 0.1 | 1.5 | 0.6 | 344 | 377 | 353 |
| 8 | 100 | 450 | 62 | 734 | 267 | 0.1 | 1.5 | 0.6 | 458 | 502 | 470 |
| 6 | 110 | 284 | 37 | 444 | 162 | 0.1 | 1.4 | 0.5 | 319 | 350 | 327 |
| 7 | 110 | 425 | 52 | 616 | 224 | 0.1 | 1.3 | 0.5 | 477 | 524 | 490 |
| 8 | 110 | 566 | 66 | 784 | 286 | 0.1 | 1.2 | 0.5 | 636 | 697 | 652 |
| 6 | 125 | 394 | 42 | 505 | 184 | 0.1 | 1.1 | 0.4 | 514 | 564 | 527 |
| 7 | 125 | 591 | 59 | 700 | 255 | 0.1 | 1.1 | 0.4 | 771 | 845 | 791 |
| 8 | 125 | 789 | 75 | 891 | 325 | 0.1 | 1.0 | 0.4 | 1029 | 1129 | 1056 |

¹ Production rates are based on a consensus of replies to a user survey.

Thin Paint or Rusted Thin Paint

Tables **3233**

Soft Coating

High Profile Range

SSPC-SP 6

RCC , RCP and PR

| Operating Conditions | | Median Production Rate ft ² /hr | Consumption Rate lbs/hr | | | Consumption Rate lbs/ft ² | | | Production Rate ft ² /hr of Blasting ¹ | | |
|----------------------|----------------|--|---------------------------|--------|---------|--------------------------------------|--------|---------|--|--------|---------|
| Nozzle Size | Pressure (psi) | | Steel Iron | Garnet | Alumina | Steel Iron | Garnet | Alumina | Steel Iron | Garnet | Alumina |
| | | 3241 | RCC With Recycling | | | | | | | | |
| 6 | 90 | 788 | 32 | 381 | 139 | 0.0 | 0.4 | 0.2 | 725 | 796 | 744 |
| 7 | 90 | 1181 | 44 | 525 | 191 | 0.0 | 0.4 | 0.2 | 1087 | 1193 | 1116 |
| 8 | 90 | 1574 | 57 | 673 | 245 | 0.0 | 0.4 | 0.1 | 1449 | 1589 | 1487 |
| 6 | 100 | 1000 | 35 | 418 | 152 | 0.0 | 0.4 | 0.1 | 1017 | 1115 | 1043 |
| 7 | 100 | 1500 | 48 | 574 | 209 | 0.0 | 0.3 | 0.1 | 1525 | 1673 | 1565 |
| 8 | 100 | 2000 | 62 | 734 | 267 | 0.0 | 0.3 | 0.1 | 2033 | 2231 | 2087 |
| 6 | 110 | 1258 | 37 | 444 | 162 | 0.0 | 0.3 | 0.1 | 1413 | 1550 | 1450 |
| 7 | 110 | 1888 | 52 | 616 | 224 | 0.0 | 0.3 | 0.1 | 2120 | 2326 | 2176 |
| 8 | 110 | 2518 | 66 | 784 | 286 | 0.0 | 0.3 | 0.1 | 2828 | 3102 | 2902 |
| 6 | 125 | 1753 | 42 | 505 | 184 | 0.0 | 0.3 | 0.1 | 2286 | 2507 | 2346 |
| 7 | 125 | 2629 | 59 | 700 | 255 | 0.0 | 0.2 | 0.1 | 3428 | 3761 | 3518 |
| 8 | 125 | 3507 | 75 | 891 | 325 | 0.0 | 0.2 | 0.1 | 4572 | 5016 | 4693 |

¹ Production rates are based on a consensus of replies to a user survey.

Thin Paint or Rusted Thin Paint

Tables **3241**

Soft Coating

Low Profile Range

SSPC-SP 7

RCC , RCP and PR

| Operating Conditions | | Median Production Rate ft ² /hr | Consumption Rate lbs/hr | | | Consumption Rate lbs/ft ² | | | Production Rate ft ² /hr of Blasting ¹ | | |
|----------------------|----------------|--|-------------------------|--------|---------|--------------------------------------|--------|---------|--|--------|---------|
| Nozzle Size | Pressure (psi) | | Steel Iron | Garnet | Alumina | Steel Iron | Garnet | Alumina | Steel Iron | Garnet | Alumina |
| | | 4111 | RCC With Recycling | | | | | | | | |
| 6 | 90 | 106 | 32 | 381 | 139 | 0.3 | 3.2 | 1.3 | 98 | 107 | 100 |
| 6 | 100 | 135 | 35 | 418 | 152 | 0.3 | 2.8 | 1.1 | 137 | 151 | 141 |
| 6 | 110 | 171 | 37 | 444 | 162 | 0.2 | 2.3 | 0.9 | 192 | 211 | 197 |
| 6 | 125 | 236 | 42 | 505 | 184 | 0.2 | 1.9 | 0.7 | 308 | 338 | 316 |
| 7 | 90 | 154 | 44 | 525 | 191 | 0.3 | 3.1 | 1.2 | 142 | 156 | 145 |
| 7 | 100 | 195 | 48 | 574 | 209 | 0.2 | 2.6 | 1.0 | 198 | 218 | 203 |
| 7 | 110 | 245 | 52 | 616 | 224 | 0.2 | 2.3 | 0.9 | 275 | 302 | 282 |
| 7 | 125 | 342 | 59 | 700 | 255 | 0.2 | 1.8 | 0.7 | 446 | 489 | 458 |
| 8 | 90 | 213 | 57 | 673 | 245 | 0.3 | 2.8 | 1.1 | 196 | 215 | 201 |
| 8 | 100 | 270 | 62 | 734 | 267 | 0.2 | 2.4 | 0.9 | 275 | 301 | 282 |
| 8 | 110 | 340 | 66 | 784 | 286 | 0.2 | 2.1 | 0.8 | 382 | 419 | 392 |
| 8 | 125 | 474 | 75 | 891 | 325 | 0.2 | 1.7 | 0.7 | 618 | 678 | 634 |

¹ Production rates are based on a consensus of replies to a user survey.

Thick Paint, Heavy Millscale or Heavy Pitted Rust

Tables 4111

Hard Coating

Low Profile Range

SSPC-SP 5

RCC , RCP and PR

| Operating Conditions | | Median Production Rate ft ² /hr | Consumption Rate lbs/hr | | | Consumption Rate lbs/ft ² | | | Production Rate ft ² /hr of Blasting ¹ | | |
|----------------------|----------------|--|-------------------------|--------|---------|--------------------------------------|--------|---------|--|--------|---------|
| Nozzle Size | Pressure (psi) | | Steel Iron | Garnet | Alumina | Steel Iron | Garnet | Alumina | Steel Iron | Garnet | Alumina |
| | | 4112 | RCC With Recycling | | | | | | | | |
| 6 | 90 | 70 | 32 | 381 | 139 | 0.5 | 4.9 | 1.9 | 64 | 71 | 66 |
| 6 | 100 | 90 | 35 | 418 | 152 | 0.4 | 4.2 | 1.6 | 92 | 100 | 94 |
| 6 | 110 | 114 | 37 | 444 | 162 | 0.3 | 3.5 | 1.4 | 128 | 140 | 131 |
| 6 | 125 | 157 | 42 | 505 | 184 | 0.3 | 2.9 | 1.1 | 205 | 225 | 210 |
| 7 | 90 | 103 | 44 | 525 | 191 | 0.4 | 4.6 | 1.8 | 95 | 104 | 97 |
| 7 | 100 | 130 | 48 | 574 | 209 | 0.4 | 4.0 | 1.5 | 132 | 145 | 136 |
| 7 | 110 | 163 | 52 | 616 | 224 | 0.3 | 3.4 | 1.3 | 183 | 201 | 188 |
| 7 | 125 | 228 | 59 | 700 | 255 | 0.3 | 2.8 | 1.1 | 297 | 326 | 305 |
| 8 | 90 | 142 | 57 | 673 | 245 | 0.4 | 4.2 | 1.7 | 131 | 143 | 134 |
| 8 | 100 | 180 | 62 | 734 | 267 | 0.3 | 3.7 | 1.4 | 183 | 201 | 188 |
| 8 | 110 | 226 | 66 | 784 | 286 | 0.3 | 3.1 | 1.2 | 254 | 278 | 260 |
| 8 | 125 | 316 | 75 | 891 | 325 | 0.2 | 2.5 | 1.0 | 412 | 452 | 423 |

¹ Production rates are based on a consensus of replies to a user survey.

Thick Paint, Heavy Millscale or Heavy Pitted Rust

Tables 4112

Hard Coating

Medium Profile Range

SSPC-SP 5

RCC , RCP and PR

| Operating Conditions | | Median Production Rate ft ² /hr | Consumption Rate lbs/hr | | | Consumption Rate lbs/ft ² | | | Production Rate ft ² /hr of Blasting ¹ | | |
|----------------------|----------------|--|-------------------------|--------|---------|--------------------------------------|--------|---------|--|--------|---------|
| Nozzle Size | Pressure (psi) | | Steel Iron | Garnet | Alumina | Steel Iron | Garnet | Alumina | Steel Iron | Garnet | Alumina |
| | | 4113 | RCC With Recycling | | | | | | | | |
| 6 | 90 | 35 | 32 | 381 | 139 | 0.9 | 9.8 | 3.8 | 32 | 35 | 33 |
| 6 | 100 | 45 | 35 | 418 | 152 | 0.8 | 8.3 | 3.2 | 46 | 50 | 47 |
| 6 | 110 | 57 | 37 | 444 | 162 | 0.6 | 7.0 | 2.7 | 64 | 70 | 66 |
| 6 | 125 | 79 | 42 | 505 | 184 | 0.5 | 5.7 | 2.2 | 103 | 113 | 106 |
| 7 | 90 | 51 | 44 | 525 | 191 | 0.9 | 9.2 | 3.6 | 47 | 51 | 48 |
| 7 | 100 | 65 | 48 | 574 | 209 | 0.7 | 7.9 | 3.1 | 66 | 73 | 68 |
| 7 | 110 | 82 | 52 | 616 | 224 | 0.6 | 6.7 | 2.6 | 92 | 101 | 95 |
| 7 | 125 | 114 | 59 | 700 | 255 | 0.5 | 5.5 | 2.1 | 149 | 163 | 153 |
| 8 | 90 | 71 | 57 | 673 | 245 | 0.8 | 8.5 | 3.3 | 65 | 72 | 67 |
| 8 | 100 | 90 | 62 | 734 | 267 | 0.7 | 7.3 | 2.8 | 92 | 100 | 94 |
| 8 | 110 | 113 | 66 | 784 | 286 | 0.6 | 6.2 | 2.4 | 127 | 139 | 130 |
| 8 | 125 | 158 | 75 | 891 | 325 | 0.5 | 5.1 | 2.0 | 206 | 226 | 211 |

¹ Production rates are based on a consensus of replies to a user survey.

Thick Paint, Heavy Millscale or Heavy Pitted Rust

Tables 4113

Hard Coating

High Profile Range

SSPC-SP 5

RCC , RCP and PR

| Operating Conditions | | Median Production Rate ft ² /hr | Consumption Rate lbs/hr | | | Consumption Rate lbs/ft ² | | | Production Rate ft ² /hr of Blasting ¹ | | |
|----------------------|----------------|--|-------------------------|--------|---------|--------------------------------------|--------|---------|--|--------|---------|
| Nozzle Size | Pressure (psi) | | Steel Iron | Garnet | Alumina | Steel Iron | Garnet | Alumina | Steel Iron | Garnet | Alumina |
| | | 4121 | RCC With Recycling | | | | | | | | |
| 6 | 90 | 117 | 32 | 381 | 139 | 0.3 | 2.9 | 1.1 | 108 | 118 | 111 |
| 6 | 100 | 150 | 35 | 418 | 152 | 0.2 | 2.5 | 1.0 | 153 | 167 | 157 |
| 6 | 110 | 190 | 37 | 444 | 162 | 0.2 | 2.1 | 0.8 | 213 | 234 | 219 |
| 6 | 125 | 263 | 42 | 505 | 184 | 0.2 | 1.7 | 0.7 | 343 | 376 | 352 |
| 7 | 90 | 166 | 44 | 525 | 191 | 0.3 | 2.8 | 1.1 | 153 | 168 | 157 |
| 7 | 100 | 210 | 48 | 574 | 209 | 0.2 | 2.5 | 1.0 | 214 | 234 | 219 |
| 7 | 110 | 264 | 52 | 616 | 224 | 0.2 | 2.1 | 0.8 | 296 | 325 | 304 |
| 7 | 125 | 367 | 59 | 700 | 255 | 0.2 | 1.7 | 0.7 | 478 | 525 | 491 |
| 8 | 90 | 236 | 57 | 673 | 245 | 0.2 | 2.6 | 1.0 | 217 | 238 | 223 |
| 8 | 100 | 300 | 62 | 734 | 267 | 0.2 | 2.2 | 0.9 | 305 | 335 | 313 |
| 8 | 110 | 377 | 66 | 784 | 286 | 0.2 | 1.9 | 0.7 | 423 | 464 | 435 |
| 8 | 125 | 527 | 75 | 891 | 325 | 0.1 | 1.5 | 0.6 | 687 | 754 | 705 |

¹ Production rates are based on a consensus of replies to a user survey.

Thick Paint, Heavy Millscale or Heavy Pitted Rust

Tables 4121

Hard Coating

Low Profile Range

SSPC-SP 10

RCC , RCP and PR

| Operating Conditions | | Median Production Rate ft ² /hr | Consumption Rate lbs/hr | | | Consumption Rate lbs/ft ² | | | Production Rate ft ² /hr of Blasting ¹ | | |
|----------------------|----------------|--|-------------------------|--------|---------|--------------------------------------|--------|---------|--|--------|---------|
| Nozzle Size | Pressure (psi) | | Steel Iron | Garnet | Alumina | Steel Iron | Garnet | Alumina | Steel Iron | Garnet | Alumina |
| | | 4122 | RCC With Recycling | | | | | | | | |
| 6 | 90 | 78 | 32 | 381 | 139 | 0.4 | 4.4 | 1.7 | 72 | 79 | 74 |
| 6 | 100 | 100 | 35 | 418 | 152 | 0.3 | 3.7 | 1.5 | 102 | 112 | 104 |
| 6 | 110 | 126 | 37 | 444 | 162 | 0.3 | 3.2 | 1.2 | 142 | 155 | 145 |
| 6 | 125 | 176 | 42 | 505 | 184 | 0.2 | 2.6 | 1.0 | 229 | 252 | 236 |
| 7 | 90 | 111 | 44 | 525 | 191 | 0.4 | 4.2 | 1.7 | 102 | 112 | 105 |
| 7 | 100 | 140 | 48 | 574 | 209 | 0.3 | 3.7 | 1.4 | 142 | 156 | 146 |
| 7 | 110 | 176 | 52 | 616 | 224 | 0.3 | 3.1 | 1.2 | 198 | 217 | 203 |
| 7 | 125 | 245 | 59 | 700 | 255 | 0.2 | 2.6 | 1.0 | 319 | 350 | 328 |
| 8 | 90 | 158 | 57 | 673 | 245 | 0.4 | 3.8 | 1.5 | 145 | 160 | 149 |
| 8 | 100 | 200 | 62 | 734 | 267 | 0.3 | 3.3 | 1.3 | 203 | 223 | 209 |
| 8 | 110 | 252 | 66 | 784 | 286 | 0.3 | 2.8 | 1.1 | 283 | 310 | 290 |
| 8 | 125 | 351 | 75 | 891 | 325 | 0.2 | 2.3 | 0.9 | 458 | 502 | 470 |

¹ Production rates are based on a consensus of replies to a user survey.

Thick Paint, Heavy Millscale or Heavy Pitted Rust

Tables 4122

Hard Coating

Medium Profile Range

SSPC-SP 10

RCC , RCP and PR

| Operating Conditions | | Median Production Rate ft ² /hr | Consumption Rate lbs/hr | | | Consumption Rate lbs/ft ² | | | Production Rate ft ² /hr of Blasting ¹ | | |
|----------------------|----------------|--|-------------------------|--------|---------|--------------------------------------|--------|---------|--|--------|---------|
| Nozzle Size | Pressure (psi) | | Steel Iron | Garnet | Alumina | Steel Iron | Garnet | Alumina | Steel Iron | Garnet | Alumina |
| | | 4123 | RCC With Recycling | | | | | | | | |
| 6 | 90 | 39 | 32 | 381 | 139 | 0.8 | 8.8 | 3.4 | 36 | 39 | 37 |
| 6 | 100 | 50 | 35 | 418 | 152 | 0.7 | 7.5 | 2.9 | 51 | 56 | 52 |
| 6 | 110 | 63 | 37 | 444 | 162 | 0.6 | 6.3 | 2.5 | 71 | 78 | 73 |
| 6 | 125 | 88 | 42 | 505 | 184 | 0.5 | 5.1 | 2.0 | 115 | 126 | 118 |
| 7 | 90 | 55 | 44 | 525 | 191 | 0.8 | 8.6 | 3.3 | 51 | 56 | 52 |
| 7 | 100 | 70 | 48 | 574 | 209 | 0.7 | 7.4 | 2.9 | 71 | 78 | 73 |
| 7 | 110 | 88 | 52 | 616 | 224 | 0.6 | 6.3 | 2.4 | 99 | 108 | 101 |
| 7 | 125 | 122 | 59 | 700 | 255 | 0.5 | 5.1 | 2.0 | 159 | 175 | 163 |
| 8 | 90 | 79 | 57 | 673 | 245 | 0.7 | 7.6 | 3.0 | 73 | 80 | 75 |
| 8 | 100 | 100 | 62 | 734 | 267 | 0.6 | 6.6 | 2.6 | 102 | 112 | 104 |
| 8 | 110 | 126 | 66 | 784 | 286 | 0.5 | 5.6 | 2.2 | 142 | 155 | 145 |
| 8 | 125 | 176 | 75 | 891 | 325 | 0.4 | 4.5 | 1.8 | 229 | 252 | 236 |

¹ Production rates are based on a consensus of replies to a user survey.

Thick Paint, Heavy Millscale or Heavy Pitted Rust

Tables 4123

Hard Coating

High Profile Range

SSPC-SP 10

RCC , RCP and PR

| Operating Conditions | | Median Production Rate ft ² /hr | Consumption Rate lbs/hr | | | Consumption Rate lbs/ft ² | | | Production Rate ft ² /hr of Blasting ¹ | | |
|----------------------|----------------|--|-------------------------|--------|---------|--------------------------------------|--------|---------|--|--------|---------|
| Nozzle Size | Pressure (psi) | | Steel Iron | Garnet | Alumina | Steel Iron | Garnet | Alumina | Steel Iron | Garnet | Alumina |
| | | 4131 | RCC With Recycling | | | | | | | | |
| 6 | 90 | 236 | 32 | 381 | 139 | 0.1 | 1.4 | 0.6 | 217 | 238 | 223 |
| 6 | 100 | 300 | 35 | 418 | 152 | 0.1 | 1.2 | 0.5 | 305 | 335 | 313 |
| 6 | 110 | 377 | 37 | 444 | 162 | 0.1 | 1.1 | 0.4 | 423 | 464 | 435 |
| 6 | 125 | 527 | 42 | 505 | 184 | 0.1 | 0.9 | 0.3 | 687 | 754 | 705 |
| 7 | 90 | 354 | 44 | 525 | 191 | 0.1 | 1.3 | 0.5 | 326 | 357 | 334 |
| 7 | 100 | 450 | 48 | 574 | 209 | 0.1 | 1.1 | 0.4 | 458 | 502 | 470 |
| 7 | 110 | 567 | 52 | 616 | 224 | 0.1 | 1.0 | 0.4 | 637 | 699 | 654 |
| 7 | 125 | 788 | 59 | 700 | 255 | 0.1 | 0.8 | 0.3 | 1027 | 1127 | 1054 |
| 8 | 90 | 473 | 57 | 673 | 245 | 0.1 | 1.3 | 0.5 | 435 | 478 | 447 |
| 8 | 100 | 600 | 62 | 734 | 267 | 0.1 | 1.1 | 0.4 | 610 | 669 | 626 |
| 8 | 110 | 755 | 66 | 784 | 286 | 0.1 | 0.9 | 0.4 | 848 | 930 | 870 |
| 8 | 125 | 1051 | 75 | 891 | 325 | 0.1 | 0.8 | 0.3 | 1370 | 1503 | 1406 |

¹ Production rates are based on a consensus of replies to a user survey.

Thick Paint, Heavy Millscale or Heavy Pitted Rust

Tables 4131

Hard Coating

Low Profile Range

SSPC-SP 6

RCC , RCP and PR

| Operating Conditions | | Median Production Rate ft ² /hr | Consumption Rate lbs/hr | | | Consumption Rate lbs/ft ² | | | Production Rate ft ² /hr of Blasting ¹ | | |
|----------------------|----------------|--|-------------------------|--------|---------|--------------------------------------|--------|---------|--|--------|---------|
| Nozzle Size | Pressure (psi) | | Steel Iron | Garnet | Alumina | Steel Iron | Garnet | Alumina | Steel Iron | Garnet | Alumina |
| | | 4132 | RCC With Recycling | | | | | | | | |
| 6 | 90 | 158 | 32 | 381 | 139 | 0.2 | 2.2 | 0.8 | 145 | 160 | 149 |
| 6 | 100 | 200 | 35 | 418 | 152 | 0.2 | 1.9 | 0.7 | 203 | 223 | 209 |
| 6 | 110 | 252 | 37 | 444 | 162 | 0.1 | 1.6 | 0.6 | 283 | 310 | 290 |
| 6 | 125 | 351 | 42 | 505 | 184 | 0.1 | 1.3 | 0.5 | 458 | 502 | 470 |
| 7 | 90 | 236 | 44 | 525 | 191 | 0.2 | 2.0 | 0.8 | 217 | 238 | 223 |
| 7 | 100 | 300 | 48 | 574 | 209 | 0.2 | 1.7 | 0.7 | 305 | 335 | 313 |
| 7 | 110 | 378 | 52 | 616 | 224 | 0.1 | 1.5 | 0.6 | 425 | 466 | 436 |
| 7 | 125 | 525 | 59 | 700 | 255 | 0.1 | 1.2 | 0.5 | 684 | 751 | 703 |
| 8 | 90 | 315 | 57 | 673 | 245 | 0.2 | 1.9 | 0.7 | 290 | 318 | 298 |
| 8 | 100 | 400 | 62 | 734 | 267 | 0.2 | 1.6 | 0.6 | 407 | 446 | 417 |
| 8 | 110 | 503 | 66 | 784 | 286 | 0.1 | 1.4 | 0.5 | 565 | 620 | 580 |
| 8 | 125 | 701 | 75 | 891 | 325 | 0.1 | 1.1 | 0.4 | 914 | 1003 | 938 |

¹ Production rates are based on a consensus of replies to a user survey.

Thick Paint, Heavy Millscale or Heavy Pitted Rust

Hard Coating

Medium Profile Range

SSPC-SP 6

Tables 4132

RCC , RCP and PR

| Operating Conditions | | Median Production Rate ft ² /hr | Consumption Rate lbs/hr | | | Consumption Rate lbs/ft ² | | | Production Rate ft ² /hr of Blasting ¹ | | |
|----------------------|----------------|--|-------------------------|--------|---------|--------------------------------------|--------|---------|--|--------|---------|
| Nozzle Size | Pressure (psi) | | Steel Iron | Garnet | Alumina | Steel Iron | Garnet | Alumina | Steel Iron | Garnet | Alumina |
| | | 4133 | RCC With Recycling | | | | | | | | |
| 6 | 90 | 79 | 32 | 381 | 139 | 0.4 | 4.3 | 1.7 | 73 | 80 | 75 |
| 6 | 100 | 100 | 35 | 418 | 152 | 0.3 | 3.7 | 1.5 | 102 | 112 | 104 |
| 6 | 110 | 126 | 37 | 444 | 162 | 0.3 | 3.2 | 1.2 | 142 | 155 | 145 |
| 6 | 125 | 176 | 42 | 505 | 184 | 0.2 | 2.6 | 1.0 | 229 | 252 | 236 |
| 7 | 90 | 118 | 44 | 525 | 191 | 0.4 | 4.0 | 1.6 | 109 | 119 | 111 |
| 7 | 100 | 150 | 48 | 574 | 209 | 0.3 | 3.4 | 1.3 | 153 | 167 | 157 |
| 7 | 110 | 189 | 52 | 616 | 224 | 0.3 | 2.9 | 1.1 | 212 | 233 | 218 |
| 7 | 125 | 263 | 59 | 700 | 255 | 0.2 | 2.4 | 0.9 | 343 | 376 | 352 |
| 8 | 90 | 158 | 57 | 673 | 245 | 0.4 | 3.8 | 1.5 | 145 | 160 | 149 |
| 8 | 100 | 200 | 62 | 734 | 267 | 0.3 | 3.3 | 1.3 | 203 | 223 | 209 |
| 8 | 110 | 252 | 66 | 784 | 286 | 0.3 | 2.8 | 1.1 | 283 | 310 | 290 |
| 8 | 125 | 350 | 75 | 891 | 325 | 0.2 | 2.3 | 0.9 | 456 | 501 | 468 |

¹ Production rates are based on a consensus of replies to a user survey.

Thick Paint, Heavy Millscale or Heavy Pitted Rust

Tables 4133

Hard Coating

High Profile Range

SSPC-SP 6

RCC , RCP and PR

| Operating Conditions | | Median Production Rate ft ² /hr | Consumption Rate lbs/hr | | | Consumption Rate lbs/ft ² | | | Production Rate ft ² /hr of Blasting ¹ | | |
|----------------------|----------------|--|-------------------------|--------|---------|--------------------------------------|--------|---------|--|--------|---------|
| Nozzle Size | Pressure (psi) | | Steel Iron | Garnet | Alumina | Steel Iron | Garnet | Alumina | Steel Iron | Garnet | Alumina |
| | | 4141 | RCC With Recycling | | | | | | | | |
| 6 | 90 | 788 | 32 | 381 | 139 | 0.0 | 0.4 | 0.2 | 725 | 796 | 744 |
| 7 | 90 | 1181 | 44 | 525 | 191 | 0.0 | 0.4 | 0.2 | 1087 | 1193 | 1116 |
| 8 | 90 | 1574 | 57 | 673 | 245 | 0.0 | 0.4 | 0.1 | 1449 | 1589 | 1487 |
| 6 | 100 | 1000 | 35 | 418 | 152 | 0.0 | 0.4 | 0.1 | 1017 | 1115 | 1043 |
| 7 | 100 | 1500 | 48 | 574 | 209 | 0.0 | 0.3 | 0.1 | 1525 | 1673 | 1565 |
| 8 | 100 | 2000 | 62 | 734 | 267 | 0.0 | 0.3 | 0.1 | 2033 | 2231 | 2087 |
| 6 | 110 | 1258 | 37 | 444 | 162 | 0.0 | 0.3 | 0.1 | 1413 | 1550 | 1450 |
| 7 | 110 | 1888 | 52 | 616 | 224 | 0.0 | 0.3 | 0.1 | 2120 | 2326 | 2176 |
| 8 | 110 | 2518 | 66 | 784 | 286 | 0.0 | 0.3 | 0.1 | 2828 | 3102 | 2902 |
| 6 | 125 | 1753 | 42 | 505 | 184 | 0.0 | 0.3 | 0.1 | 2286 | 2507 | 2346 |
| 7 | 125 | 2629 | 59 | 700 | 255 | 0.0 | 0.2 | 0.1 | 3428 | 3761 | 3518 |
| 8 | 125 | 3507 | 75 | 891 | 325 | 0.0 | 0.2 | 0.1 | 4572 | 5016 | 4693 |

¹ Production rates are based on a consensus of replies to a user survey.

Thick Paint, Heavy Millscale or Heavy Pitted Rust

Tables 4141

Hard Coating

Low Profile Range

SSPC-SP 7

RCC , RCP and PR

| Operating Conditions | | Median Production Rate ft ² /hr | Consumption Rate lbs/hr | | | Consumption Rate lbs/ft ² | | | Production Rate ft ² /hr of Blasting ¹ | | |
|----------------------|----------------|--|-------------------------|--------|---------|--------------------------------------|--------|---------|--|--------|---------|
| Nozzle Size | Pressure (psi) | | Steel Iron | Garnet | Alumina | Steel Iron | Garnet | Alumina | Steel Iron | Garnet | Alumina |
| | | 4211 | RCC With Recycling | | | | | | | | |
| 6 | 90 | 159 | 32 | 381 | 139 | 0.2 | 2.2 | 0.8 | 146 | 161 | 150 |
| 6 | 100 | 203 | 35 | 418 | 152 | 0.2 | 1.8 | 0.7 | 206 | 226 | 212 |
| 6 | 110 | 256 | 37 | 444 | 162 | 0.1 | 1.6 | 0.6 | 287 | 315 | 295 |
| 6 | 125 | 354 | 42 | 505 | 184 | 0.1 | 1.3 | 0.5 | 462 | 506 | 474 |
| 7 | 90 | 231 | 44 | 525 | 191 | 0.2 | 2.0 | 0.8 | 213 | 233 | 218 |
| 7 | 100 | 293 | 48 | 574 | 209 | 0.2 | 1.8 | 0.7 | 298 | 327 | 306 |
| 7 | 110 | 367 | 52 | 616 | 224 | 0.1 | 1.5 | 0.6 | 412 | 452 | 423 |
| 7 | 125 | 513 | 59 | 700 | 255 | 0.1 | 1.2 | 0.5 | 669 | 734 | 686 |
| 8 | 90 | 319 | 57 | 673 | 245 | 0.2 | 1.9 | 0.7 | 294 | 322 | 301 |
| 8 | 100 | 405 | 62 | 734 | 267 | 0.1 | 1.6 | 0.6 | 412 | 452 | 423 |
| 8 | 110 | 509 | 66 | 784 | 286 | 0.1 | 1.4 | 0.5 | 572 | 627 | 587 |
| 8 | 125 | 710 | 75 | 891 | 325 | 0.1 | 1.1 | 0.4 | 926 | 1016 | 950 |

¹ Production rates are based on a consensus of replies to a user survey.

Thick Paint, Heavy Millscale or Heavy Pitted Rust

Tables 4211

Soft Coating

Low Profile Range

SSPC-SP 5

RCC , RCP and PR

| Operating Conditions | | Median Production Rate ft ² /hr | Consumption Rate lbs/hr | | | Consumption Rate lbs/ft ² | | | Production Rate ft ² /hr of Blasting ¹ | | |
|----------------------|----------------|--|-------------------------|--------|---------|--------------------------------------|--------|---------|--|--------|---------|
| Nozzle Size | Pressure (psi) | | Steel Iron | Garnet | Alumina | Steel Iron | Garnet | Alumina | Steel Iron | Garnet | Alumina |
| | | 4212 | RCC With Recycling | | | | | | | | |
| 6 | 90 | 106 | 32 | 381 | 139 | 0.3 | 3.2 | 1.3 | 98 | 107 | 100 |
| 6 | 100 | 135 | 35 | 418 | 152 | 0.3 | 2.8 | 1.1 | 137 | 151 | 141 |
| 6 | 110 | 171 | 37 | 444 | 162 | 0.2 | 2.3 | 0.9 | 192 | 211 | 197 |
| 6 | 125 | 236 | 42 | 505 | 184 | 0.2 | 1.9 | 0.7 | 308 | 338 | 316 |
| 7 | 90 | 154 | 44 | 525 | 191 | 0.3 | 3.1 | 1.2 | 142 | 156 | 145 |
| 7 | 100 | 195 | 48 | 574 | 209 | 0.2 | 2.6 | 1.0 | 198 | 218 | 203 |
| 7 | 110 | 245 | 52 | 616 | 224 | 0.2 | 2.3 | 0.9 | 275 | 302 | 282 |
| 7 | 125 | 342 | 59 | 700 | 255 | 0.2 | 1.8 | 0.7 | 446 | 489 | 458 |
| 8 | 90 | 213 | 57 | 673 | 245 | 0.3 | 2.8 | 1.1 | 196 | 215 | 201 |
| 8 | 100 | 270 | 62 | 734 | 267 | 0.2 | 2.4 | 0.9 | 275 | 301 | 282 |
| 8 | 110 | 340 | 66 | 784 | 286 | 0.2 | 2.1 | 0.8 | 382 | 419 | 392 |
| 8 | 125 | 474 | 75 | 891 | 325 | 0.2 | 1.7 | 0.7 | 618 | 678 | 634 |

¹ Production rates are based on a consensus of replies to a user survey.

Thick Paint, Heavy Millscale or Heavy Pitted Rust

Tables 4212

Soft Coating

Medium Profile Range

SSPC-SP 5

RCC , RCP and PR

| Operating Conditions | | Median Production Rate ft ² /hr | Consumption Rate lbs/hr | | | Consumption Rate lbs/ft ² | | | Production Rate ft ² /hr of Blasting ¹ | | |
|----------------------|----------------|--|-------------------------|--------|---------|--------------------------------------|--------|---------|--|--------|---------|
| Nozzle Size | Pressure (psi) | | Steel Iron | Garnet | Alumina | Steel Iron | Garnet | Alumina | Steel Iron | Garnet | Alumina |
| | | 4213 | RCC With Recycling | | | | | | | | |
| 6 | 90 | 53 | 32 | 381 | 139 | 0.6 | 6.5 | 2.5 | 49 | 54 | 50 |
| 6 | 100 | 68 | 35 | 418 | 152 | 0.5 | 5.5 | 2.1 | 69 | 76 | 71 |
| 6 | 110 | 85 | 37 | 444 | 162 | 0.4 | 4.7 | 1.8 | 95 | 105 | 98 |
| 6 | 125 | 118 | 42 | 505 | 184 | 0.4 | 3.8 | 1.5 | 154 | 169 | 158 |
| 7 | 90 | 77 | 44 | 525 | 191 | 0.6 | 6.1 | 2.4 | 71 | 78 | 73 |
| 7 | 100 | 98 | 48 | 574 | 209 | 0.5 | 5.3 | 2.0 | 100 | 109 | 102 |
| 7 | 110 | 122 | 52 | 616 | 224 | 0.4 | 4.5 | 1.8 | 137 | 150 | 141 |
| 7 | 125 | 171 | 59 | 700 | 255 | 0.3 | 3.7 | 1.4 | 223 | 245 | 229 |
| 8 | 90 | 106 | 57 | 673 | 245 | 0.5 | 5.7 | 2.2 | 98 | 107 | 100 |
| 8 | 100 | 135 | 62 | 734 | 267 | 0.4 | 4.9 | 1.9 | 137 | 151 | 141 |
| 8 | 110 | 170 | 66 | 784 | 286 | 0.4 | 4.1 | 1.6 | 191 | 209 | 196 |
| 8 | 125 | 237 | 75 | 891 | 325 | 0.3 | 3.4 | 1.3 | 309 | 339 | 317 |

¹ Production rates are based on a consensus of replies to a user survey.

Thick Paint, Heavy Millscale or Heavy Pitted Rust

Tables 4213

Soft Coating

High Profile Range

SSPC-SP 5

RCC , RCP and PR

| Operating Conditions | | Median Production Rate ft ² /hr | Consumption Rate lbs/hr | | | Consumption Rate lbs/ft ² | | | Production Rate ft ² /hr of Blasting ¹ | | |
|----------------------|----------------|--|-------------------------|--------|---------|--------------------------------------|--------|---------|--|--------|---------|
| Nozzle Size | Pressure (psi) | | Steel Iron | Garnet | Alumina | Steel Iron | Garnet | Alumina | Steel Iron | Garnet | Alumina |
| | | 4221 | RCC With Recycling | | | | | | | | |
| 6 | 90 | 176 | 32 | 381 | 139 | 0.2 | 1.9 | 0.8 | 162 | 178 | 166 |
| 6 | 100 | 225 | 35 | 418 | 152 | 0.2 | 1.7 | 0.6 | 229 | 251 | 235 |
| 6 | 110 | 284 | 37 | 444 | 162 | 0.1 | 1.4 | 0.5 | 319 | 350 | 327 |
| 6 | 125 | 395 | 42 | 505 | 184 | 0.1 | 1.1 | 0.4 | 515 | 565 | 529 |
| 7 | 90 | 249 | 44 | 525 | 191 | 0.2 | 1.9 | 0.7 | 229 | 251 | 235 |
| 7 | 100 | 315 | 48 | 574 | 209 | 0.2 | 1.6 | 0.6 | 320 | 351 | 329 |
| 7 | 110 | 396 | 52 | 616 | 224 | 0.1 | 1.4 | 0.5 | 445 | 488 | 456 |
| 7 | 125 | 551 | 59 | 700 | 255 | 0.1 | 1.1 | 0.4 | 718 | 788 | 737 |
| 8 | 90 | 354 | 57 | 673 | 245 | 0.2 | 1.7 | 0.7 | 326 | 357 | 334 |
| 8 | 100 | 450 | 62 | 734 | 267 | 0.1 | 1.5 | 0.6 | 458 | 502 | 470 |
| 8 | 110 | 566 | 66 | 784 | 286 | 0.1 | 1.2 | 0.5 | 636 | 697 | 652 |
| 8 | 125 | 790 | 75 | 891 | 325 | 0.1 | 1.0 | 0.4 | 1030 | 1130 | 1057 |

¹ Production rates are based on a consensus of replies to a user survey.

Thick Paint, Heavy Millscale or Heavy Pitted Rust

Tables 4221

Soft Coating

Low Profile Range

SSPC-SP 10

RCC , RCP and PR

| Operating Conditions | | Median Production Rate ft ² /hr | Consumption Rate lbs/hr | | | Consumption Rate lbs/ft ² | | | Production Rate ft ² /hr of Blasting ¹ | | |
|----------------------|----------------|--|-------------------------|--------|---------|--------------------------------------|--------|---------|--|--------|---------|
| Nozzle Size | Pressure (psi) | | Steel Iron | Garnet | Alumina | Steel Iron | Garnet | Alumina | Steel Iron | Garnet | Alumina |
| | | 4222 | RCC With Recycling | | | | | | | | |
| 6 | 90 | 117 | 32 | 381 | 139 | 0.3 | 2.9 | 1.1 | 108 | 118 | 111 |
| 6 | 100 | 150 | 35 | 418 | 152 | 0.2 | 2.5 | 1.0 | 153 | 167 | 157 |
| 6 | 110 | 190 | 37 | 444 | 162 | 0.2 | 2.1 | 0.8 | 213 | 234 | 219 |
| 6 | 125 | 263 | 42 | 505 | 184 | 0.2 | 1.7 | 0.7 | 343 | 376 | 352 |
| 7 | 90 | 166 | 44 | 525 | 191 | 0.3 | 2.8 | 1.1 | 153 | 168 | 157 |
| 7 | 100 | 210 | 48 | 574 | 209 | 0.2 | 2.5 | 1.0 | 214 | 234 | 219 |
| 7 | 110 | 264 | 52 | 616 | 224 | 0.2 | 2.1 | 0.8 | 296 | 325 | 304 |
| 7 | 125 | 367 | 59 | 700 | 255 | 0.2 | 1.7 | 0.7 | 478 | 525 | 491 |
| 8 | 90 | 236 | 57 | 673 | 245 | 0.2 | 2.6 | 1.0 | 217 | 238 | 223 |
| 8 | 100 | 300 | 62 | 734 | 267 | 0.2 | 2.2 | 0.9 | 305 | 335 | 313 |
| 8 | 110 | 377 | 66 | 784 | 286 | 0.2 | 1.9 | 0.7 | 423 | 464 | 435 |
| 8 | 125 | 527 | 75 | 891 | 325 | 0.1 | 1.5 | 0.6 | 687 | 754 | 705 |

¹ Production rates are based on a consensus of replies to a user survey.

Thick Paint, Heavy Millscale or Heavy Pitted Rust

Tables 4222

Soft Coating

Medium Profile Range

SSPC-SP 10

RCC , RCP and PR

| Operating Conditions | | Median Production Rate ft ² /hr | Consumption Rate lbs/hr | | | Consumption Rate lbs/ft ² | | | Production Rate ft ² /hr of Blasting ¹ | | |
|----------------------|----------------|--|-------------------------|--------|---------|--------------------------------------|--------|---------|--|--------|---------|
| Nozzle Size | Pressure (psi) | | Steel Iron | Garnet | Alumina | Steel Iron | Garnet | Alumina | Steel Iron | Garnet | Alumina |
| | | 4223 | RCC With Recycling | | | | | | | | |
| 6 | 90 | 59 | 32 | 381 | 139 | 0.5 | 5.8 | 2.3 | 54 | 60 | 56 |
| 6 | 100 | 75 | 35 | 418 | 152 | 0.5 | 5.0 | 1.9 | 76 | 84 | 78 |
| 6 | 110 | 95 | 37 | 444 | 162 | 0.4 | 4.2 | 1.6 | 107 | 117 | 110 |
| 6 | 125 | 132 | 42 | 505 | 184 | 0.3 | 3.4 | 1.3 | 172 | 189 | 177 |
| 7 | 90 | 83 | 44 | 525 | 191 | 0.5 | 5.7 | 2.2 | 76 | 84 | 78 |
| 7 | 100 | 105 | 48 | 574 | 209 | 0.5 | 4.9 | 1.9 | 107 | 117 | 110 |
| 7 | 110 | 132 | 52 | 616 | 224 | 0.4 | 4.2 | 1.6 | 148 | 163 | 152 |
| 7 | 125 | 184 | 59 | 700 | 255 | 0.3 | 3.4 | 1.3 | 240 | 263 | 246 |
| 8 | 90 | 118 | 57 | 673 | 245 | 0.5 | 5.1 | 2.0 | 109 | 119 | 111 |
| 8 | 100 | 150 | 62 | 734 | 267 | 0.4 | 4.4 | 1.7 | 153 | 167 | 157 |
| 8 | 110 | 189 | 66 | 784 | 286 | 0.3 | 3.7 | 1.4 | 212 | 233 | 218 |
| 8 | 125 | 263 | 75 | 891 | 325 | 0.3 | 3.0 | 1.2 | 343 | 376 | 352 |

¹ Production rates are based on a consensus of replies to a user survey.

Thick Paint, Heavy Millscale or Heavy Pitted Rust

Tables 4223

Soft Coating

High Profile Range

SSPC-SP 10

RCC , RCP and PR

| Operating Conditions | | Median Production Rate ft ² /hr | Consumption Rate lbs/hr | | | Consumption Rate lbs/ft ² | | | Production Rate ft ² /hr of Blasting ¹ | | |
|----------------------|----------------|--|-------------------------|--------|---------|--------------------------------------|--------|---------|--|--------|---------|
| Nozzle Size | Pressure (psi) | | Steel Iron | Garnet | Alumina | Steel Iron | Garnet | Alumina | Steel Iron | Garnet | Alumina |
| | | 4231 | RCC With Recycling | | | | | | | | |
| 6 | 90 | 354 | 32 | 381 | 139 | 0.1 | 1.0 | 0.4 | 326 | 357 | 334 |
| 6 | 100 | 450 | 35 | 418 | 152 | 0.1 | 0.8 | 0.3 | 458 | 502 | 470 |
| 6 | 110 | 566 | 37 | 444 | 162 | 0.1 | 0.7 | 0.3 | 636 | 697 | 652 |
| 6 | 125 | 790 | 42 | 505 | 184 | 0.1 | 0.6 | 0.2 | 1030 | 1130 | 1057 |
| 7 | 90 | 531 | 44 | 525 | 191 | 0.1 | 0.9 | 0.3 | 489 | 536 | 502 |
| 7 | 100 | 675 | 48 | 574 | 209 | 0.1 | 0.8 | 0.3 | 686 | 753 | 704 |
| 7 | 110 | 851 | 52 | 616 | 224 | 0.1 | 0.6 | 0.3 | 956 | 1048 | 981 |
| 7 | 125 | 1182 | 59 | 700 | 255 | 0.0 | 0.5 | 0.2 | 1541 | 1691 | 1582 |
| 8 | 90 | 709 | 57 | 673 | 245 | 0.1 | 0.9 | 0.3 | 653 | 716 | 670 |
| 8 | 100 | 900 | 62 | 734 | 267 | 0.1 | 0.7 | 0.3 | 915 | 1004 | 939 |
| 8 | 110 | 1132 | 66 | 784 | 286 | 0.1 | 0.6 | 0.2 | 1271 | 1395 | 1305 |
| 8 | 125 | 1577 | 75 | 891 | 325 | 0.0 | 0.5 | 0.2 | 2056 | 2256 | 2110 |

¹ Production rates are based on a consensus of replies to a user survey.

Thick Paint, Heavy Millscale or Heavy Pitted Rust

Tables 4231

Soft Coating

Low Profile Range

SSPC-SP 6

RCC , RCP and PR

| Operating Conditions | | Median Production Rate ft ² /hr | Consumption Rate lbs/hr | | | Consumption Rate lbs/ft ² | | | Production Rate ft ² /hr of Blasting ¹ | | |
|----------------------|----------------|--|-------------------------|--------|---------|--------------------------------------|--------|---------|--|--------|---------|
| Nozzle Size | Pressure (psi) | | Steel Iron | Garnet | Alumina | Steel Iron | Garnet | Alumina | Steel Iron | Garnet | Alumina |
| | | 4232 | RCC With Recycling | | | | | | | | |
| 6 | 90 | 236 | 32 | 381 | 139 | 0.1 | 1.4 | 0.6 | 217 | 238 | 223 |
| 6 | 100 | 300 | 35 | 418 | 152 | 0.1 | 1.2 | 0.5 | 305 | 335 | 313 |
| 6 | 110 | 377 | 37 | 444 | 162 | 0.1 | 1.1 | 0.4 | 423 | 464 | 435 |
| 6 | 125 | 527 | 42 | 505 | 184 | 0.1 | 0.9 | 0.3 | 687 | 754 | 705 |
| 7 | 90 | 354 | 44 | 525 | 191 | 0.1 | 1.3 | 0.5 | 326 | 357 | 334 |
| 7 | 100 | 450 | 48 | 574 | 209 | 0.1 | 1.1 | 0.4 | 458 | 502 | 470 |
| 7 | 110 | 567 | 52 | 616 | 224 | 0.1 | 1.0 | 0.4 | 637 | 699 | 654 |
| 7 | 125 | 788 | 59 | 700 | 255 | 0.1 | 0.8 | 0.3 | 1027 | 1127 | 1054 |
| 8 | 90 | 473 | 57 | 673 | 245 | 0.1 | 1.3 | 0.5 | 435 | 478 | 447 |
| 8 | 100 | 600 | 62 | 734 | 267 | 0.1 | 1.1 | 0.4 | 610 | 669 | 626 |
| 8 | 110 | 755 | 66 | 784 | 286 | 0.1 | 0.9 | 0.4 | 848 | 930 | 870 |
| 8 | 125 | 1051 | 75 | 891 | 325 | 0.1 | 0.8 | 0.3 | 1370 | 1503 | 1406 |

¹ Production rates are based on a consensus of replies to a user survey.

Thick Paint, Heavy Millscale or Heavy Pitted Rust

Tables 4232

Soft Coating

Medium Profile Range

SSPC-SP 6

RCC , RCP and PR

| Operating Conditions | | Median Production Rate ft ² /hr | Consumption Rate lbs/hr | | | Consumption Rate lbs/ft ² | | | Production Rate ft ² /hr of Blasting ¹ | | |
|----------------------|----------------|--|-------------------------|--------|---------|--------------------------------------|--------|---------|--|--------|---------|
| Nozzle Size | Pressure (psi) | | Steel Iron | Garnet | Alumina | Steel Iron | Garnet | Alumina | Steel Iron | Garnet | Alumina |
| | | 4233 | RCC With Recycling | | | | | | | | |
| 6 | 90 | 118 | 32 | 381 | 139 | 0.3 | 2.9 | 1.1 | 109 | 119 | 111 |
| 6 | 100 | 150 | 35 | 418 | 152 | 0.2 | 2.5 | 1.0 | 153 | 167 | 157 |
| 6 | 110 | 189 | 37 | 444 | 162 | 0.2 | 2.1 | 0.8 | 212 | 233 | 218 |
| 6 | 125 | 263 | 42 | 505 | 184 | 0.2 | 1.7 | 0.7 | 343 | 376 | 352 |
| 7 | 90 | 177 | 44 | 525 | 191 | 0.2 | 2.7 | 1.0 | 163 | 179 | 167 |
| 7 | 100 | 225 | 48 | 574 | 209 | 0.2 | 2.3 | 0.9 | 229 | 251 | 235 |
| 7 | 110 | 284 | 52 | 616 | 224 | 0.2 | 1.9 | 0.8 | 319 | 350 | 327 |
| 7 | 125 | 394 | 59 | 700 | 255 | 0.1 | 1.6 | 0.6 | 514 | 564 | 527 |
| 8 | 90 | 236 | 57 | 673 | 245 | 0.2 | 2.6 | 1.0 | 217 | 238 | 223 |
| 8 | 100 | 300 | 62 | 734 | 267 | 0.2 | 2.2 | 0.9 | 305 | 335 | 313 |
| 8 | 110 | 377 | 66 | 784 | 286 | 0.2 | 1.9 | 0.7 | 423 | 464 | 435 |
| 8 | 125 | 526 | 75 | 891 | 325 | 0.1 | 1.5 | 0.6 | 686 | 752 | 704 |

¹ Production rates are based on a consensus of replies to a user survey.

Thick Paint, Heavy Millscale or Heavy Pitted Rust

Tables 4233

Soft Coating

High Profile Range

SSPC-SP 6

RCC , RCP and PR

| Operating Conditions | | Median Production Rate ft ² /hr | Consumption Rate lbs/hr | | | Consumption Rate lbs/ft ² | | | Production Rate ft ² /hr of Blasting ¹ | | |
|----------------------|----------------|--|-------------------------|--------|---------|--------------------------------------|--------|---------|--|--------|---------|
| Nozzle Size | Pressure (psi) | | Steel Iron | Garnet | Alumina | Steel Iron | Garnet | Alumina | Steel Iron | Garnet | Alumina |
| | | 4241 | RCC With Recycling | | | | | | | | |
| 6 | 90 | 788 | 32 | 381 | 139 | 0.0 | 0.4 | 0.2 | 725 | 796 | 744 |
| 7 | 90 | 1181 | 44 | 525 | 191 | 0.0 | 0.4 | 0.2 | 1087 | 1193 | 1116 |
| 8 | 90 | 1574 | 57 | 673 | 245 | 0.0 | 0.4 | 0.1 | 1449 | 1589 | 1487 |
| 6 | 100 | 1000 | 35 | 418 | 152 | 0.0 | 0.4 | 0.1 | 1017 | 1115 | 1043 |
| 7 | 100 | 1500 | 48 | 574 | 209 | 0.0 | 0.3 | 0.1 | 1525 | 1673 | 1565 |
| 8 | 100 | 2000 | 62 | 734 | 267 | 0.0 | 0.3 | 0.1 | 2033 | 2231 | 2087 |
| 6 | 110 | 1258 | 37 | 444 | 162 | 0.0 | 0.3 | 0.1 | 1413 | 1550 | 1450 |
| 7 | 110 | 1888 | 52 | 616 | 224 | 0.0 | 0.3 | 0.1 | 2120 | 2326 | 2176 |
| 8 | 110 | 2518 | 66 | 784 | 286 | 0.0 | 0.3 | 0.1 | 2828 | 3102 | 2902 |
| 6 | 125 | 1753 | 42 | 505 | 184 | 0.0 | 0.3 | 0.1 | 2286 | 2507 | 2346 |
| 7 | 125 | 2629 | 59 | 700 | 255 | 0.0 | 0.2 | 0.1 | 3428 | 3761 | 3518 |
| 8 | 125 | 3507 | 75 | 891 | 325 | 0.0 | 0.2 | 0.1 | 4572 | 5016 | 4693 |

¹ Production rates are based on a consensus of replies to a user survey.

Thick Paint, Heavy Millscale or Heavy Pitted Rust

Tables 4241

Soft Coating

Low Profile Range

SSPC-SP 7

RCC , RCP and PR

**This Section of The Data Tables Contains Tables
from 1111 through 4241 for Consumable Abrasive
Production Rates.**

| Operating Conditions | | Production Rate ft ² /hr of Blasting ¹ | | | | | | | | | | | | | | | |
|----------------------|----------------|--|--------|------|-----------------------------|------|--------|------|--------------------------------|------------|--------|--------|--------------|---------|-------|------|------------|
| Nozzle Size | Pressure (psi) | Typical Mineral Abrasive | | | Refinery & By-Product Grits | | | | Natural or Mined Grits & Sands | | | | Manufactured | | | | Steel Iron |
| | | -25% | Median | +25% | Copper | Coal | Nickel | Iron | Olivine | Staurolite | Garnet | Silica | Zircon | Alumina | Glass | | |
| 6 | 90 | 195 | 260 | 325 | 251 | 250 | 222 | 248 | 246 | 255 | 263 | 235 | 256 | 246 | 248 | 239 | |
| 7 | 90 | 283 | 377 | 471 | 364 | 363 | 322 | 360 | 356 | 370 | 381 | 341 | 371 | 356 | 359 | 347 | |
| 8 | 90 | 390 | 520 | 650 | 503 | 500 | 445 | 497 | 491 | 510 | 525 | 471 | 512 | 491 | 496 | 479 | |
| 6 | 100 | 248 | 330 | 413 | 352 | 351 | 312 | 348 | 344 | 358 | 368 | 330 | 359 | 344 | 347 | 335 | |
| 7 | 100 | 360 | 480 | 600 | 513 | 510 | 453 | 507 | 501 | 520 | 535 | 480 | 522 | 501 | 505 | 488 | |
| 8 | 100 | 495 | 660 | 825 | 705 | 701 | 623 | 697 | 689 | 715 | 736 | 660 | 718 | 689 | 695 | 671 | |
| 6 | 110 | 311 | 415 | 519 | 490 | 487 | 433 | 484 | 478 | 497 | 511 | 458 | 499 | 478 | 483 | 466 | |
| 7 | 110 | 454 | 605 | 756 | 714 | 710 | 631 | 705 | 697 | 724 | 745 | 668 | 727 | 697 | 703 | 679 | |
| 8 | 110 | 623 | 831 | 1039 | 980 | 975 | 867 | 969 | 958 | 994 | 1024 | 918 | 999 | 958 | 966 | 933 | |
| 6 | 125 | 434 | 578 | 723 | 792 | 788 | 700 | 782 | 773 | 803 | 827 | 741 | 807 | 773 | 780 | 754 | |
| 7 | 125 | 631 | 841 | 1051 | 1152 | 1146 | 1019 | 1138 | 1125 | 1168 | 1203 | 1079 | 1174 | 1125 | 1135 | 1097 | |
| 8 | 125 | 868 | 1157 | 1446 | 1585 | 1577 | 1401 | 1566 | 1548 | 1607 | 1655 | 1484 | 1615 | 1548 | 1562 | 1509 | |

¹ Production rates are based on a consensus of replies to a user survey.

Light Rust, Millscale or Loose Paint

Hard Coating

Low Profile Range

SSPC-SP 5

Tables 1111

PC

| Operating Conditions | | Production Rate ft ² /hr of Blasting ¹ | | | | | | | | | | | | | | |
|----------------------|----------------|--|--------|------|-----------------------------|------|--------|------|--------------------------------|------------|--------|--------|--------------|---------|-------|------|
| | | Typical Mineral Abrasive | | | Refinery & By-Product Grits | | | | Natural or Mined Grits & Sands | | | | Manufactured | | | |
| Nozzle Size | Pressure (psi) | -25% | Median | +25% | Copper | Coal | Nickel | Iron | Olivine | Staurolite | Garnet | Silica | Zircon | Alumina | Glass | Iron |
| 6 | 90 | 130 | 173 | 216 | 167 | 166 | 148 | 165 | 163 | 170 | 175 | 157 | 170 | 163 | 165 | 159 |
| 7 | 90 | 188 | 251 | 314 | 243 | 241 | 215 | 240 | 237 | 246 | 253 | 227 | 247 | 237 | 239 | 231 |
| 8 | 90 | 260 | 346 | 433 | 335 | 333 | 296 | 331 | 327 | 339 | 349 | 313 | 341 | 327 | 330 | 318 |
| 6 | 100 | 165 | 220 | 275 | 235 | 234 | 208 | 232 | 230 | 238 | 245 | 220 | 239 | 230 | 232 | 224 |
| 7 | 100 | 240 | 320 | 400 | 342 | 340 | 302 | 338 | 334 | 347 | 357 | 320 | 348 | 334 | 337 | 325 |
| 8 | 100 | 330 | 440 | 550 | 470 | 468 | 416 | 464 | 459 | 477 | 491 | 440 | 479 | 459 | 463 | 447 |
| 6 | 110 | 208 | 277 | 346 | 327 | 325 | 289 | 323 | 319 | 331 | 341 | 306 | 333 | 319 | 322 | 311 |
| 7 | 110 | 302 | 403 | 504 | 475 | 473 | 420 | 470 | 465 | 482 | 497 | 445 | 484 | 465 | 469 | 453 |
| 8 | 110 | 416 | 554 | 693 | 654 | 650 | 578 | 646 | 639 | 663 | 683 | 612 | 666 | 639 | 644 | 622 |
| 6 | 125 | 289 | 385 | 481 | 527 | 525 | 466 | 521 | 515 | 535 | 551 | 494 | 537 | 515 | 520 | 502 |
| 7 | 125 | 421 | 561 | 701 | 768 | 764 | 679 | 759 | 751 | 779 | 802 | 719 | 783 | 751 | 757 | 731 |
| 8 | 125 | 579 | 772 | 965 | 1057 | 1052 | 935 | 1045 | 1033 | 1073 | 1104 | 990 | 1077 | 1033 | 1042 | 1007 |

¹ Production rates are based on a consensus of replies to a user survey.

Light Rust, Millscale or Loose Paint

Hard Coating

Medium Profile Range

SSPC-SP 5

Tables 1112 PC

| Operating Conditions | | Production Rate ft ² /hr of Blasting ¹ | | | | | | | | | | | | | | |
|----------------------|----------------|--|--------|------|-----------------------------|------|--------|------|--------------------------------|------------|--------|--------|--------------|---------|-------|-----|
| | | Typical Mineral Abrasive | | | Refinery & By-Product Grits | | | | Natural or Mined Grits & Sands | | | | Manufactured | | | |
| Nozzle Size | Pressure (psi) | -25% | Median | +25% | Copper | Coal | Nickel | Iron | Olivine | Staurolite | Garnet | Silica | Zircon | Alumina | Glass | |
| 6 | 90 | 65 | 87 | 109 | 84 | 84 | 74 | 83 | 82 | 85 | 88 | 79 | 86 | 82 | 83 | 80 |
| 7 | 90 | 95 | 126 | 158 | 122 | 121 | 108 | 120 | 119 | 124 | 127 | 114 | 124 | 119 | 120 | 116 |
| 8 | 90 | 130 | 173 | 216 | 167 | 166 | 148 | 165 | 163 | 170 | 175 | 157 | 170 | 163 | 165 | 159 |
| 6 | 100 | 83 | 110 | 138 | 117 | 117 | 104 | 116 | 115 | 119 | 123 | 110 | 120 | 115 | 116 | 112 |
| 7 | 100 | 120 | 160 | 200 | 171 | 170 | 151 | 169 | 167 | 173 | 178 | 160 | 174 | 167 | 168 | 163 |
| 8 | 100 | 165 | 220 | 275 | 235 | 234 | 208 | 232 | 230 | 238 | 245 | 220 | 239 | 230 | 232 | 224 |
| 6 | 110 | 104 | 138 | 173 | 163 | 162 | 144 | 161 | 159 | 165 | 170 | 152 | 166 | 159 | 160 | 155 |
| 7 | 110 | 152 | 202 | 253 | 238 | 237 | 211 | 236 | 233 | 242 | 249 | 223 | 243 | 233 | 235 | 227 |
| 8 | 110 | 208 | 277 | 346 | 327 | 325 | 289 | 323 | 319 | 331 | 341 | 306 | 333 | 319 | 322 | 311 |
| 6 | 125 | 145 | 193 | 241 | 264 | 263 | 234 | 261 | 258 | 268 | 276 | 248 | 269 | 258 | 261 | 252 |
| 7 | 125 | 210 | 280 | 350 | 383 | 382 | 339 | 379 | 375 | 389 | 401 | 359 | 391 | 375 | 378 | 365 |
| 8 | 125 | 290 | 386 | 483 | 529 | 526 | 468 | 523 | 517 | 536 | 552 | 495 | 539 | 517 | 521 | 503 |

¹ Production rates are based on a consensus of replies to a user survey.

Light Rust, Millscale or Loose Paint

Hard Coating

High Profile Range

SSPC-SP 5

Tables 1113 P C

| Operating Conditions | | Production Rate ft ² /hr of Blasting ¹ | | | | | | | | | | | | | | |
|----------------------|----------------|--|--------|------|-----------------------------|------|--------|------|--------------------------------|------------|--------|--------|--------------|---------|-------|------|
| | | Typical Mineral Abrasive | | | Refinery & By-Product Grits | | | | Natural or Mined Grits & Sands | | | | Manufactured | | | |
| Nozzle Size | Pressure (psi) | -25% | Median | +25% | Copper | Coal | Nickel | Iron | Olivine | Staurolite | Garnet | Silica | Zircon | Alumina | Glass | |
| 6 | 90 | 212 | 283 | 354 | 274 | 272 | 242 | 270 | 267 | 278 | 286 | 256 | 279 | 267 | 270 | 260 |
| 7 | 90 | 311 | 414 | 518 | 400 | 398 | 354 | 396 | 391 | 406 | 418 | 375 | 408 | 391 | 395 | 381 |
| 8 | 90 | 425 | 567 | 709 | 548 | 545 | 485 | 542 | 536 | 556 | 573 | 513 | 559 | 536 | 540 | 522 |
| 6 | 100 | 270 | 360 | 450 | 384 | 383 | 340 | 380 | 376 | 390 | 402 | 360 | 392 | 376 | 379 | 366 |
| 7 | 100 | 394 | 525 | 656 | 561 | 558 | 496 | 554 | 548 | 569 | 586 | 525 | 571 | 548 | 553 | 534 |
| 8 | 100 | 540 | 720 | 900 | 769 | 765 | 680 | 760 | 751 | 780 | 803 | 720 | 784 | 751 | 758 | 732 |
| 6 | 110 | 340 | 453 | 566 | 534 | 532 | 473 | 528 | 522 | 542 | 558 | 500 | 545 | 522 | 527 | 509 |
| 7 | 110 | 495 | 660 | 825 | 779 | 775 | 689 | 770 | 761 | 790 | 813 | 729 | 793 | 761 | 767 | 741 |
| 8 | 110 | 680 | 907 | 1134 | 1070 | 1065 | 946 | 1058 | 1045 | 1085 | 1117 | 1002 | 1090 | 1045 | 1055 | 1019 |
| 6 | 125 | 473 | 631 | 789 | 864 | 860 | 764 | 854 | 844 | 877 | 903 | 809 | 881 | 844 | 852 | 823 |
| 7 | 125 | 689 | 919 | 1149 | 1259 | 1252 | 1113 | 1244 | 1230 | 1277 | 1315 | 1179 | 1283 | 1230 | 1241 | 1198 |
| 8 | 125 | 946 | 1261 | 1576 | 1727 | 1718 | 1527 | 1707 | 1687 | 1752 | 1804 | 1617 | 1760 | 1687 | 1702 | 1644 |

¹ Production rates are based on a consensus of replies to a user survey.

Light Rust, Millscale or Loose Paint

Hard Coating

Low Profile Range

SSPC-SP 10

Tables 1121

PC

| Operating Conditions | | Production Rate ft ² /hr of Blasting ¹ | | | | | | | | | | | | | | |
|----------------------|----------------|--|--------|------|-----------------------------|------|--------|------|--------------------------------|------------|--------|--------|--------------|---------|-------|------|
| | | Typical Mineral Abrasive | | | Refinery & By-Product Grits | | | | Natural or Mined Grits & Sands | | | | Manufactured | | | |
| Nozzle Size | Pressure (psi) | -25% | Median | +25% | Copper | Coal | Nickel | Iron | Olivine | Staurolite | Garnet | Silica | Zircon | Alumina | Glass | |
| 6 | 90 | 142 | 189 | 236 | 183 | 182 | 162 | 181 | 179 | 185 | 191 | 171 | 186 | 179 | 180 | 174 |
| 7 | 90 | 207 | 276 | 345 | 267 | 265 | 236 | 264 | 261 | 271 | 279 | 250 | 272 | 261 | 263 | 254 |
| 8 | 90 | 284 | 378 | 473 | 365 | 364 | 323 | 361 | 357 | 371 | 382 | 342 | 372 | 357 | 360 | 348 |
| 6 | 100 | 180 | 240 | 300 | 256 | 255 | 227 | 253 | 250 | 260 | 268 | 240 | 261 | 250 | 253 | 244 |
| 7 | 100 | 263 | 350 | 438 | 374 | 372 | 331 | 369 | 365 | 379 | 390 | 350 | 381 | 365 | 368 | 356 |
| 8 | 100 | 360 | 480 | 600 | 513 | 510 | 453 | 507 | 501 | 520 | 535 | 480 | 522 | 501 | 505 | 488 |
| 6 | 110 | 227 | 302 | 378 | 356 | 354 | 315 | 352 | 348 | 361 | 372 | 334 | 363 | 348 | 351 | 339 |
| 7 | 110 | 330 | 440 | 550 | 519 | 516 | 459 | 513 | 507 | 527 | 542 | 486 | 529 | 507 | 512 | 494 |
| 8 | 110 | 453 | 604 | 755 | 713 | 709 | 630 | 704 | 696 | 723 | 744 | 667 | 726 | 696 | 702 | 678 |
| 6 | 125 | 315 | 420 | 525 | 575 | 572 | 509 | 569 | 562 | 584 | 601 | 539 | 586 | 562 | 567 | 548 |
| 7 | 125 | 460 | 613 | 766 | 840 | 835 | 742 | 830 | 820 | 852 | 877 | 786 | 855 | 820 | 828 | 799 |
| 8 | 125 | 631 | 841 | 1051 | 1152 | 1146 | 1019 | 1138 | 1125 | 1168 | 1203 | 1079 | 1174 | 1125 | 1135 | 1097 |

¹ Production rates are based on a consensus of replies to a user survey.

Light Rust, Millscale or Loose Paint

Hard Coating

Medium Profile Range

SSPC-SP 10

Tables 1122

PC

| Operating Conditions | | Production Rate ft²/hr of Blasting ¹ | | | | | | | | | | | | | | |
|----------------------|----------------|---|--------|------|-----------------------------|------|--------|------|--------------------------------|------------|--------|--------|--------------|---------|-------|-----|
| | | Typical Mineral Abrasive | | | Refinery & By-Product Grits | | | | Natural or Mined Grits & Sands | | | | Manufactured | | | |
| Nozzle Size | Pressure (psi) | -25% | Median | +25% | Copper | Coal | Nickel | Iron | Olivine | Staurolite | Garnet | Silica | Zircon | Alumina | Glass | |
| 6 | 90 | 71 | 94 | 118 | 91 | 90 | 80 | 90 | 89 | 92 | 95 | 85 | 93 | 89 | 90 | 87 |
| 7 | 90 | 104 | 138 | 173 | 133 | 133 | 118 | 132 | 130 | 135 | 139 | 125 | 136 | 130 | 132 | 127 |
| 8 | 90 | 142 | 189 | 236 | 183 | 182 | 162 | 181 | 179 | 185 | 191 | 171 | 186 | 179 | 180 | 174 |
| 6 | 100 | 90 | 120 | 150 | 128 | 128 | 113 | 127 | 125 | 130 | 134 | 120 | 131 | 125 | 126 | 122 |
| 7 | 100 | 131 | 175 | 219 | 187 | 186 | 165 | 185 | 183 | 190 | 195 | 175 | 190 | 183 | 184 | 178 |
| 8 | 100 | 180 | 240 | 300 | 256 | 255 | 227 | 253 | 250 | 260 | 268 | 240 | 261 | 250 | 253 | 244 |
| 6 | 110 | 113 | 151 | 189 | 178 | 177 | 158 | 176 | 174 | 181 | 186 | 167 | 182 | 174 | 176 | 170 |
| 7 | 110 | 165 | 220 | 275 | 260 | 258 | 230 | 257 | 254 | 263 | 271 | 243 | 264 | 254 | 256 | 247 |
| 8 | 110 | 227 | 302 | 378 | 356 | 354 | 315 | 352 | 348 | 361 | 372 | 334 | 363 | 348 | 351 | 339 |
| 6 | 125 | 158 | 210 | 263 | 288 | 286 | 254 | 284 | 281 | 292 | 300 | 269 | 293 | 281 | 283 | 274 |
| 7 | 125 | 230 | 306 | 383 | 419 | 417 | 371 | 414 | 409 | 425 | 438 | 392 | 427 | 409 | 413 | 399 |
| 8 | 125 | 315 | 420 | 525 | 575 | 572 | 509 | 569 | 562 | 584 | 601 | 539 | 586 | 562 | 567 | 548 |

¹ Production rates are based on a consensus of replies to a user survey.

Light Rust, Millscale or Loose Paint

Hard Coating

High Profile Range

SSPC-SP 10

Tables 1123

PC

| Operating Conditions | | Production Rate ft ² /hr of Blasting ¹ | | | | | | | | | | | | | | | |
|----------------------|----------------|--|--------|------|-----------------------------|------|--------|------|--------------------------------|------------|--------|--------|--------------|---------|-------|------|------------|
| Nozzle Size | Pressure (psi) | Typical Mineral Abrasive | | | Refinery & By-Product Grits | | | | Natural or Mined Grits & Sands | | | | Manufactured | | | | Steel Iron |
| | | -25% | Median | +25% | Copper | Coal | Nickel | Iron | Olivine | Staurolite | Garnet | Silica | Zircon | Alumina | Glass | | |
| 6 | 90 | 442 | 590 | 737 | 570 | 568 | 504 | 564 | 557 | 579 | 596 | 534 | 581 | 557 | 562 | 543 | |
| 7 | 90 | 665 | 886 | 1108 | 857 | 852 | 758 | 847 | 837 | 869 | 895 | 802 | 873 | 837 | 844 | 815 | |
| 8 | 90 | 886 | 1181 | 1476 | 1142 | 1136 | 1010 | 1129 | 1116 | 1158 | 1193 | 1069 | 1163 | 1116 | 1125 | 1087 | |
| 6 | 100 | 563 | 750 | 938 | 801 | 797 | 708 | 792 | 783 | 813 | 837 | 750 | 816 | 783 | 789 | 763 | |
| 7 | 100 | 844 | 1125 | 1406 | 1201 | 1195 | 1063 | 1188 | 1174 | 1219 | 1255 | 1125 | 1224 | 1174 | 1184 | 1144 | |
| 8 | 100 | 1125 | 1500 | 1875 | 1602 | 1594 | 1417 | 1583 | 1565 | 1625 | 1673 | 1500 | 1632 | 1565 | 1579 | 1525 | |
| 6 | 110 | 709 | 945 | 1181 | 1115 | 1109 | 986 | 1102 | 1089 | 1131 | 1164 | 1044 | 1136 | 1089 | 1099 | 1061 | |
| 7 | 110 | 1061 | 1415 | 1769 | 1669 | 1661 | 1476 | 1650 | 1631 | 1693 | 1743 | 1563 | 1701 | 1631 | 1645 | 1589 | |
| 8 | 110 | 1415 | 1887 | 2359 | 2226 | 2215 | 1969 | 2200 | 2175 | 2258 | 2325 | 2084 | 2268 | 2175 | 2194 | 2119 | |
| 6 | 125 | 986 | 1314 | 1643 | 1800 | 1790 | 1591 | 1779 | 1758 | 1826 | 1880 | 1685 | 1834 | 1758 | 1774 | 1713 | |
| 7 | 125 | 1480 | 1973 | 2466 | 2702 | 2688 | 2390 | 2671 | 2640 | 2741 | 2822 | 2530 | 2753 | 2640 | 2663 | 2572 | |
| 8 | 125 | 1972 | 2629 | 3286 | 3601 | 3582 | 3184 | 3559 | 3518 | 3652 | 3761 | 3372 | 3669 | 3518 | 3549 | 3428 | |

¹ Production rates are based on a consensus of replies to a user survey.

Light Rust, Millscale or Loose Paint

Hard Coating

Low Profile Range

SSPC-SP 6

Tables 1131 PC

| Operating Conditions | | Production Rate ft ² /hr of Blasting ¹ | | | | | | | | | | | | | | | |
|----------------------|----------------|--|--------|------|-----------------------------|------|--------|------|--------------------------------|------------|--------|--------|--------------|---------|-------|------|------------|
| Nozzle Size | Pressure (psi) | Typical Mineral Abrasive | | | Refinery & By-Product Grits | | | | Natural or Mined Grits & Sands | | | | Manufactured | | | | Steel Iron |
| | | -25% | Median | +25% | Copper | Coal | Nickel | Iron | Olivine | Staurolite | Garnet | Silica | Zircon | Alumina | Glass | | |
| 6 | 90 | 295 | 393 | 491 | 380 | 378 | 336 | 376 | 371 | 385 | 397 | 356 | 387 | 371 | 375 | 362 | |
| 7 | 90 | 443 | 591 | 739 | 571 | 568 | 505 | 565 | 558 | 580 | 597 | 535 | 582 | 558 | 563 | 544 | |
| 8 | 90 | 591 | 788 | 985 | 762 | 758 | 674 | 753 | 744 | 773 | 796 | 713 | 776 | 744 | 751 | 725 | |
| 6 | 100 | 375 | 500 | 625 | 534 | 531 | 472 | 528 | 522 | 542 | 558 | 500 | 544 | 522 | 526 | 508 | |
| 7 | 100 | 563 | 750 | 938 | 801 | 797 | 708 | 792 | 783 | 813 | 837 | 750 | 816 | 783 | 789 | 763 | |
| 8 | 100 | 750 | 1000 | 1250 | 1068 | 1063 | 944 | 1056 | 1043 | 1083 | 1115 | 1000 | 1088 | 1043 | 1053 | 1017 | |
| 6 | 110 | 472 | 630 | 787 | 743 | 739 | 657 | 735 | 726 | 754 | 776 | 696 | 757 | 726 | 733 | 708 | |
| 7 | 110 | 707 | 943 | 1179 | 1112 | 1107 | 984 | 1100 | 1087 | 1128 | 1162 | 1042 | 1134 | 1087 | 1096 | 1059 | |
| 8 | 110 | 944 | 1258 | 1573 | 1484 | 1476 | 1312 | 1467 | 1450 | 1505 | 1550 | 1390 | 1512 | 1450 | 1463 | 1413 | |
| 6 | 125 | 657 | 876 | 1095 | 1200 | 1194 | 1061 | 1186 | 1172 | 1217 | 1253 | 1123 | 1223 | 1172 | 1183 | 1142 | |
| 7 | 125 | 986 | 1315 | 1644 | 1801 | 1792 | 1593 | 1780 | 1760 | 1827 | 1881 | 1686 | 1835 | 1760 | 1775 | 1715 | |
| 8 | 125 | 1315 | 1753 | 2191 | 2401 | 2389 | 2123 | 2373 | 2346 | 2435 | 2507 | 2248 | 2446 | 2346 | 2366 | 2286 | |

¹ Production rates are based on a consensus of replies to a user survey.

Light Rust, Millscale or Loose Paint

Hard Coating

Medium Profile Range

SSPC-SP 6

Tables 1132

PC

| Operating Conditions | | Production Rate ft ² /hr of Blasting ¹ | | | | | | | | | | | | | | |
|----------------------|----------------|--|--------|------|-----------------------------|------|--------|------|--------------------------------|------------|--------|--------|--------------|---------|-------|------|
| | | Typical Mineral Abrasive | | | Refinery & By-Product Grits | | | | Natural or Mined Grits & Sands | | | | Manufactured | | | |
| Nozzle Size | Pressure (psi) | -25% | Median | +25% | Copper | Coal | Nickel | Iron | Olivine | Staurolite | Garnet | Silica | Zircon | Alumina | Glass | |
| 6 | 90 | 148 | 197 | 246 | 190 | 189 | 168 | 188 | 186 | 193 | 199 | 178 | 194 | 186 | 188 | 181 |
| 7 | 90 | 221 | 295 | 369 | 285 | 284 | 252 | 282 | 279 | 289 | 298 | 267 | 291 | 279 | 281 | 272 |
| 8 | 90 | 296 | 394 | 493 | 381 | 379 | 337 | 376 | 372 | 386 | 398 | 357 | 388 | 372 | 375 | 363 |
| 6 | 100 | 188 | 250 | 313 | 267 | 266 | 236 | 264 | 261 | 271 | 279 | 250 | 272 | 261 | 263 | 254 |
| 7 | 100 | 281 | 375 | 469 | 400 | 398 | 354 | 396 | 391 | 406 | 418 | 375 | 408 | 391 | 395 | 381 |
| 8 | 100 | 375 | 500 | 625 | 534 | 531 | 472 | 528 | 522 | 542 | 558 | 500 | 544 | 522 | 526 | 508 |
| 6 | 110 | 236 | 315 | 394 | 372 | 370 | 329 | 367 | 363 | 377 | 388 | 348 | 379 | 363 | 366 | 354 |
| 7 | 110 | 354 | 472 | 590 | 557 | 554 | 492 | 550 | 544 | 565 | 582 | 521 | 567 | 544 | 549 | 530 |
| 8 | 110 | 472 | 629 | 786 | 742 | 738 | 656 | 733 | 725 | 753 | 775 | 695 | 756 | 725 | 731 | 706 |
| 6 | 125 | 329 | 438 | 548 | 600 | 597 | 530 | 593 | 586 | 609 | 627 | 562 | 611 | 586 | 591 | 571 |
| 7 | 125 | 494 | 658 | 823 | 901 | 897 | 797 | 891 | 881 | 914 | 941 | 844 | 918 | 881 | 888 | 858 |
| 8 | 125 | 657 | 876 | 1095 | 1200 | 1194 | 1061 | 1186 | 1172 | 1217 | 1253 | 1123 | 1223 | 1172 | 1183 | 1142 |

¹ Production rates are based on a consensus of replies to a user survey.

Light Rust, Millscale or Loose Paint

Hard Coating

High Profile Range

SSPC-SP 6

Tables 1133 PC

| Operating Conditions | | Production Rate ft ² /hr of Blasting ¹ | | | | | | | | | | | | | | |
|----------------------|----------------|--|--------|------|-----------------------------|------|--------|------|--------------------------------|------------|--------|--------|--------------|---------|-------|------|
| | | Typical Mineral Abrasive | | | Refinery & By-Product Grits | | | | Natural or Mined Grits & Sands | | | | Manufactured | | | |
| Nozzle Size | Pressure (psi) | -25% | Median | +25% | Copper | Coal | Nickel | Iron | Olivine | Staurolite | Garnet | Silica | Zircon | Alumina | Glass | |
| 6 | 90 | 591 | 788 | 985 | 762 | 758 | 674 | 753 | 744 | 773 | 796 | 713 | 776 | 744 | 751 | 725 |
| 7 | 90 | 886 | 1181 | 1476 | 1142 | 1136 | 1010 | 1129 | 1116 | 1158 | 1193 | 1069 | 1163 | 1116 | 1125 | 1087 |
| 8 | 90 | 1181 | 1574 | 1968 | 1522 | 1514 | 1346 | 1504 | 1487 | 1544 | 1589 | 1425 | 1551 | 1487 | 1500 | 1449 |
| 6 | 100 | 750 | 1000 | 1250 | 1068 | 1063 | 944 | 1056 | 1043 | 1083 | 1115 | 1000 | 1088 | 1043 | 1053 | 1017 |
| 7 | 100 | 1125 | 1500 | 1875 | 1602 | 1594 | 1417 | 1583 | 1565 | 1625 | 1673 | 1500 | 1632 | 1565 | 1579 | 1525 |
| 8 | 100 | 1500 | 2000 | 2500 | 2136 | 2125 | 1889 | 2111 | 2087 | 2167 | 2231 | 2000 | 2176 | 2087 | 2105 | 2033 |
| 6 | 110 | 944 | 1258 | 1573 | 1484 | 1476 | 1312 | 1467 | 1450 | 1505 | 1550 | 1390 | 1512 | 1450 | 1463 | 1413 |
| 7 | 110 | 1416 | 1888 | 2360 | 2227 | 2216 | 1970 | 2201 | 2176 | 2259 | 2326 | 2086 | 2270 | 2176 | 2195 | 2120 |
| 8 | 110 | 1889 | 2518 | 3148 | 2970 | 2955 | 2627 | 2936 | 2902 | 3013 | 3102 | 2781 | 3027 | 2902 | 2928 | 2828 |
| 6 | 125 | 1315 | 1753 | 2191 | 2401 | 2389 | 2123 | 2373 | 2346 | 2435 | 2507 | 2248 | 2446 | 2346 | 2366 | 2286 |
| 7 | 125 | 1972 | 2629 | 3286 | 3601 | 3582 | 3184 | 3559 | 3518 | 3652 | 3761 | 3372 | 3669 | 3518 | 3549 | 3428 |
| 8 | 125 | 2630 | 3507 | 4384 | 4803 | 4779 | 4248 | 4747 | 4693 | 4872 | 5016 | 4497 | 4894 | 4693 | 4734 | 4572 |

¹ Production rates are based on a consensus of replies to a user survey.

Light Rust, Millscale or Loose Paint

Hard Coating

Low Profile Range

SSPC-SP 7

Tables 1141 PC

| Operating Conditions | | Production Rate ft ² /hr of Blasting ¹ | | | | | | | | | | | | | | |
|----------------------|----------------|--|--------|------|-----------------------------|------|--------|------|--------------------------------|------------|--------|--------|--------------|---------|-------|------|
| | | Typical Mineral Abrasive | | | Refinery & By-Product Grits | | | | Natural or Mined Grits & Sands | | | | Manufactured | | | |
| Nozzle Size | Pressure (psi) | -25% | Median | +25% | Copper | Coal | Nickel | Iron | Olivine | Staurolite | Garnet | Silica | Zircon | Alumina | Glass | |
| 6 | 90 | 293 | 390 | 488 | 377 | 375 | 333 | 373 | 368 | 382 | 394 | 353 | 384 | 368 | 372 | 359 |
| 7 | 90 | 424 | 566 | 707 | 547 | 544 | 484 | 541 | 535 | 555 | 572 | 512 | 558 | 535 | 539 | 521 |
| 8 | 90 | 584 | 779 | 974 | 753 | 749 | 666 | 744 | 736 | 764 | 787 | 705 | 767 | 736 | 742 | 717 |
| 6 | 100 | 371 | 495 | 619 | 529 | 526 | 467 | 522 | 517 | 536 | 552 | 495 | 539 | 517 | 521 | 503 |
| 7 | 100 | 540 | 720 | 900 | 769 | 765 | 680 | 760 | 751 | 780 | 803 | 720 | 784 | 751 | 758 | 732 |
| 8 | 100 | 743 | 990 | 1238 | 1057 | 1052 | 935 | 1045 | 1033 | 1073 | 1104 | 990 | 1077 | 1033 | 1042 | 1007 |
| 6 | 110 | 467 | 623 | 779 | 735 | 731 | 650 | 726 | 718 | 746 | 768 | 688 | 749 | 718 | 724 | 700 |
| 7 | 110 | 681 | 908 | 1135 | 1071 | 1066 | 947 | 1059 | 1047 | 1087 | 1119 | 1003 | 1091 | 1047 | 1056 | 1020 |
| 8 | 110 | 935 | 1246 | 1558 | 1470 | 1462 | 1300 | 1453 | 1436 | 1491 | 1535 | 1376 | 1498 | 1436 | 1449 | 1399 |
| 6 | 125 | 650 | 866 | 1083 | 1186 | 1180 | 1049 | 1172 | 1159 | 1203 | 1239 | 1111 | 1209 | 1159 | 1169 | 1129 |
| 7 | 125 | 946 | 1261 | 1576 | 1727 | 1718 | 1527 | 1707 | 1687 | 1752 | 1804 | 1617 | 1760 | 1687 | 1702 | 1644 |
| 8 | 125 | 1302 | 1736 | 2170 | 2378 | 2365 | 2103 | 2350 | 2323 | 2412 | 2483 | 2226 | 2423 | 2323 | 2343 | 2263 |

¹ Production rates are based on a consensus of replies to a user survey.

Light Rust, Millscale or Loose Paint

Soft Coating

Low Profile Range

SSPC-SP 5

Tables 1211 PC

| Operating Conditions | | Production Rate ft ² /hr of Blasting ¹ | | | | | | | | | | | | | | |
|----------------------|----------------|--|--------|------|-----------------------------|------|--------|------|--------------------------------|------------|--------|--------|--------------|---------|-------|------|
| | | Typical Mineral Abrasive | | | Refinery & By-Product Grits | | | | Natural or Mined Grits & Sands | | | | Manufactured | | | |
| Nozzle Size | Pressure (psi) | -25% | Median | +25% | Copper | Coal | Nickel | Iron | Olivine | Staurolite | Garnet | Silica | Zircon | Alumina | Glass | |
| 6 | 90 | 195 | 260 | 325 | 251 | 250 | 222 | 248 | 246 | 255 | 263 | 235 | 256 | 246 | 248 | 239 |
| 7 | 90 | 283 | 377 | 471 | 364 | 363 | 322 | 360 | 356 | 370 | 381 | 341 | 371 | 356 | 359 | 347 |
| 8 | 90 | 390 | 520 | 650 | 503 | 500 | 445 | 497 | 491 | 510 | 525 | 471 | 512 | 491 | 496 | 479 |
| 6 | 100 | 248 | 330 | 413 | 352 | 351 | 312 | 348 | 344 | 358 | 368 | 330 | 359 | 344 | 347 | 335 |
| 7 | 100 | 360 | 480 | 600 | 513 | 510 | 453 | 507 | 501 | 520 | 535 | 480 | 522 | 501 | 505 | 488 |
| 8 | 100 | 495 | 660 | 825 | 705 | 701 | 623 | 697 | 689 | 715 | 736 | 660 | 718 | 689 | 695 | 671 |
| 6 | 110 | 311 | 415 | 519 | 490 | 487 | 433 | 484 | 478 | 497 | 511 | 458 | 499 | 478 | 483 | 466 |
| 7 | 110 | 454 | 605 | 756 | 714 | 710 | 631 | 705 | 697 | 724 | 745 | 668 | 727 | 697 | 703 | 679 |
| 8 | 110 | 623 | 831 | 1039 | 980 | 975 | 867 | 969 | 958 | 994 | 1024 | 918 | 999 | 958 | 966 | 933 |
| 6 | 125 | 434 | 578 | 723 | 792 | 788 | 700 | 782 | 773 | 803 | 827 | 741 | 807 | 773 | 780 | 754 |
| 7 | 125 | 631 | 841 | 1051 | 1152 | 1146 | 1019 | 1138 | 1125 | 1168 | 1203 | 1079 | 1174 | 1125 | 1135 | 1097 |
| 8 | 125 | 868 | 1157 | 1446 | 1585 | 1577 | 1401 | 1566 | 1548 | 1607 | 1655 | 1484 | 1615 | 1548 | 1562 | 1509 |

¹ Production rates are based on a consensus of replies to a user survey.

Light Rust, Millscale or Loose Paint

Soft Coating

Medium Profile Range

SSPC-SP 5

Tables 1212

PC

| Operating Conditions | | Production Rate ft ² /hr of Blasting ¹ | | | | | | | | | | | | | | |
|----------------------|----------------|--|--------|------|-----------------------------|------|--------|------|--------------------------------|------------|--------|--------|--------------|---------|-------|------------|
| Nozzle Size | Pressure (psi) | Typical Mineral Abrasive | | | Refinery & By-Product Grits | | | | Natural or Mined Grits & Sands | | | | Manufactured | | | Steel Iron |
| | | -25% | Median | +25% | Copper | Coal | Nickel | Iron | Olivine | Staurolite | Garnet | Silica | Zircon | Alumina | Glass | |
| 6 | 90 | 98 | 130 | 163 | 126 | 125 | 111 | 124 | 123 | 127 | 131 | 118 | 128 | 123 | 124 | 120 |
| 7 | 90 | 142 | 189 | 236 | 183 | 182 | 162 | 181 | 179 | 185 | 191 | 171 | 186 | 179 | 180 | 174 |
| 8 | 90 | 195 | 260 | 325 | 251 | 250 | 222 | 248 | 246 | 255 | 263 | 235 | 256 | 246 | 248 | 239 |
| 6 | 100 | 124 | 165 | 206 | 176 | 175 | 156 | 174 | 172 | 179 | 184 | 165 | 180 | 172 | 174 | 168 |
| 7 | 100 | 180 | 240 | 300 | 256 | 255 | 227 | 253 | 250 | 260 | 268 | 240 | 261 | 250 | 253 | 244 |
| 8 | 100 | 248 | 330 | 413 | 352 | 351 | 312 | 348 | 344 | 358 | 368 | 330 | 359 | 344 | 347 | 336 |
| 6 | 110 | 156 | 208 | 260 | 245 | 244 | 217 | 243 | 240 | 249 | 256 | 230 | 250 | 240 | 242 | 234 |
| 7 | 110 | 227 | 303 | 379 | 357 | 356 | 316 | 353 | 349 | 363 | 373 | 335 | 364 | 349 | 352 | 340 |
| 8 | 110 | 311 | 415 | 519 | 490 | 487 | 433 | 484 | 478 | 497 | 511 | 458 | 499 | 478 | 483 | 466 |
| 6 | 125 | 217 | 289 | 361 | 396 | 394 | 350 | 391 | 387 | 402 | 413 | 371 | 403 | 387 | 390 | 377 |
| 7 | 125 | 315 | 420 | 525 | 575 | 572 | 509 | 569 | 562 | 584 | 601 | 539 | 586 | 562 | 567 | 548 |
| 8 | 125 | 434 | 579 | 724 | 793 | 789 | 701 | 784 | 775 | 804 | 828 | 743 | 808 | 775 | 782 | 755 |

¹ Production rates are based on a consensus of replies to a user survey.

Light Rust, Millscale or Loose Paint

Soft Coating

High Profile Range

SSPC-SP 5

Tables 1213 PC

| Operating Conditions | | Production Rate ft ² /hr of Blasting ¹ | | | | | | | | | | | | | | |
|----------------------|----------------|--|--------|------|-----------------------------|------|--------|------|--------------------------------|------------|--------|--------|--------------|---------|-------|------|
| | | Typical Mineral Abrasive | | | Refinery & By-Product Grits | | | | Natural or Mined Grits & Sands | | | | Manufactured | | | |
| Nozzle Size | Pressure (psi) | -25% | Median | +25% | Copper | Coal | Nickel | Iron | Olivine | Staurolite | Garnet | Silica | Zircon | Alumina | Glass | |
| 6 | 90 | 319 | 425 | 531 | 411 | 409 | 363 | 406 | 401 | 417 | 429 | 385 | 419 | 401 | 405 | 391 |
| 7 | 90 | 466 | 621 | 776 | 600 | 597 | 531 | 593 | 587 | 609 | 627 | 562 | 612 | 587 | 592 | 572 |
| 8 | 90 | 637 | 850 | 1063 | 822 | 818 | 727 | 812 | 803 | 834 | 858 | 769 | 837 | 803 | 810 | 782 |
| 6 | 100 | 405 | 540 | 675 | 577 | 574 | 510 | 570 | 563 | 585 | 602 | 540 | 588 | 563 | 568 | 549 |
| 7 | 100 | 591 | 788 | 985 | 842 | 837 | 744 | 832 | 822 | 854 | 879 | 788 | 858 | 822 | 829 | 801 |
| 8 | 100 | 810 | 1080 | 1350 | 1153 | 1148 | 1020 | 1140 | 1127 | 1170 | 1205 | 1080 | 1175 | 1127 | 1137 | 1098 |
| 6 | 110 | 510 | 680 | 850 | 802 | 798 | 709 | 793 | 784 | 814 | 838 | 751 | 817 | 784 | 791 | 764 |
| 7 | 110 | 742 | 990 | 1238 | 1168 | 1162 | 1033 | 1154 | 1141 | 1185 | 1220 | 1094 | 1190 | 1141 | 1151 | 1112 |
| 8 | 110 | 1020 | 1360 | 1700 | 1604 | 1596 | 1419 | 1586 | 1568 | 1627 | 1676 | 1502 | 1635 | 1568 | 1581 | 1527 |
| 6 | 125 | 709 | 946 | 1183 | 1296 | 1289 | 1146 | 1281 | 1266 | 1314 | 1353 | 1213 | 1320 | 1266 | 1277 | 1233 |
| 7 | 125 | 1034 | 1379 | 1724 | 1889 | 1879 | 1670 | 1867 | 1845 | 1916 | 1973 | 1768 | 1925 | 1845 | 1862 | 1798 |
| 8 | 125 | 1419 | 1892 | 2365 | 2591 | 2578 | 2292 | 2561 | 2532 | 2629 | 2706 | 2426 | 2640 | 2532 | 2554 | 2467 |

¹ Production rates are based on a consensus of replies to a user survey.

Light Rust, Millscale or Loose Paint

Soft Coating

Low Profile Range

SSPC-SP 10

Tables 1221

PC

| Operating Conditions | | Production Rate ft ² /hr of Blasting ¹ | | | | | | | | | | | | | | |
|----------------------|----------------|--|--------|------|-----------------------------|------|--------|------|--------------------------------|------------|--------|--------|--------------|---------|-------|------|
| | | Typical Mineral Abrasive | | | Refinery & By-Product Grits | | | | Natural or Mined Grits & Sands | | | | Manufactured | | | |
| Nozzle Size | Pressure (psi) | -25% | Median | +25% | Copper | Coal | Nickel | Iron | Olivine | Staurolite | Garnet | Silica | Zircon | Alumina | Glass | |
| 6 | 90 | 212 | 283 | 354 | 274 | 272 | 242 | 270 | 267 | 278 | 286 | 256 | 279 | 267 | 270 | 260 |
| 7 | 90 | 311 | 414 | 518 | 400 | 398 | 354 | 396 | 391 | 406 | 418 | 375 | 408 | 391 | 395 | 381 |
| 8 | 90 | 425 | 567 | 709 | 548 | 545 | 485 | 542 | 536 | 556 | 573 | 513 | 559 | 536 | 540 | 522 |
| 6 | 100 | 270 | 360 | 450 | 384 | 383 | 340 | 380 | 376 | 390 | 402 | 360 | 392 | 376 | 379 | 366 |
| 7 | 100 | 394 | 525 | 656 | 561 | 558 | 496 | 554 | 548 | 569 | 586 | 525 | 571 | 548 | 553 | 534 |
| 8 | 100 | 540 | 720 | 900 | 769 | 765 | 680 | 760 | 751 | 780 | 803 | 720 | 784 | 751 | 758 | 732 |
| 6 | 110 | 340 | 453 | 566 | 534 | 532 | 473 | 528 | 522 | 542 | 558 | 500 | 545 | 522 | 527 | 509 |
| 7 | 110 | 495 | 660 | 825 | 779 | 775 | 689 | 770 | 761 | 790 | 813 | 729 | 793 | 761 | 767 | 741 |
| 8 | 110 | 680 | 907 | 1134 | 1070 | 1065 | 946 | 1058 | 1045 | 1085 | 1117 | 1002 | 1090 | 1045 | 1055 | 1019 |
| 6 | 125 | 473 | 631 | 789 | 864 | 860 | 764 | 854 | 844 | 877 | 903 | 809 | 881 | 844 | 852 | 823 |
| 7 | 125 | 689 | 919 | 1149 | 1259 | 1252 | 1113 | 1244 | 1230 | 1277 | 1315 | 1179 | 1283 | 1230 | 1241 | 1198 |
| 8 | 125 | 946 | 1261 | 1576 | 1727 | 1718 | 1527 | 1707 | 1687 | 1752 | 1804 | 1617 | 1760 | 1687 | 1702 | 1644 |

¹ Production rates are based on a consensus of replies to a user survey.

Light Rust, Millscale or Loose Paint

Soft Coating

Medium Profile Range

SSPC-SP 10

Tables 1222

PC

| Operating Conditions | | Production Rate ft²/hr of Blasting ¹ | | | | | | | | | | | | | | |
|----------------------|----------------|---|--------|------|-----------------------------|------|--------|------|--------------------------------|------------|--------|--------|--------------|---------|-------|-----|
| | | Typical Mineral Abrasive | | | Refinery & By-Product Grits | | | | Natural or Mined Grits & Sands | | | | Manufactured | | | |
| Nozzle Size | Pressure (psi) | -25% | Median | +25% | Copper | Coal | Nickel | Iron | Olivine | Staurolite | Garnet | Silica | Zircon | Alumina | Glass | |
| 6 | 90 | 107 | 142 | 178 | 137 | 137 | 121 | 136 | 134 | 139 | 143 | 129 | 140 | 134 | 135 | 131 |
| 7 | 90 | 155 | 207 | 259 | 200 | 199 | 177 | 198 | 196 | 203 | 209 | 187 | 204 | 196 | 197 | 191 |
| 8 | 90 | 212 | 283 | 354 | 274 | 272 | 242 | 270 | 267 | 278 | 286 | 256 | 279 | 267 | 270 | 260 |
| 6 | 100 | 135 | 180 | 225 | 192 | 191 | 170 | 190 | 188 | 195 | 201 | 180 | 196 | 188 | 189 | 183 |
| 7 | 100 | 197 | 263 | 329 | 281 | 279 | 248 | 278 | 274 | 285 | 293 | 263 | 286 | 274 | 277 | 267 |
| 8 | 100 | 270 | 360 | 450 | 384 | 383 | 340 | 380 | 376 | 390 | 402 | 360 | 392 | 376 | 379 | 366 |
| 6 | 110 | 170 | 227 | 284 | 268 | 266 | 237 | 265 | 262 | 272 | 280 | 251 | 273 | 262 | 264 | 255 |
| 7 | 110 | 248 | 330 | 413 | 389 | 387 | 344 | 385 | 380 | 395 | 407 | 365 | 397 | 380 | 384 | 371 |
| 8 | 110 | 340 | 453 | 566 | 534 | 532 | 473 | 528 | 522 | 542 | 558 | 500 | 545 | 522 | 527 | 509 |
| 6 | 125 | 236 | 315 | 394 | 431 | 429 | 382 | 426 | 422 | 438 | 451 | 404 | 440 | 422 | 425 | 411 |
| 7 | 125 | 345 | 460 | 575 | 630 | 627 | 557 | 623 | 616 | 639 | 658 | 590 | 642 | 616 | 621 | 600 |
| 8 | 125 | 473 | 631 | 789 | 864 | 860 | 764 | 854 | 844 | 877 | 903 | 809 | 881 | 844 | 852 | 823 |

¹ Production rates are based on a consensus of replies to a user survey.

Light Rust, Millscale or Loose Paint

Soft Coating

High Profile Range

SSPC-SP 10

Tables

1223

PC

| Operating Conditions | | Production Rate ft ² /hr of Blasting ¹ | | | | | | | | | | | | | | |
|----------------------|----------------|--|--------|------|-----------------------------|------|--------|------|--------------------------------|------------|--------|--------|--------------|---------|-------|------|
| | | Typical Mineral Abrasive | | | Refinery & By-Product Grits | | | | Natural or Mined Grits & Sands | | | | Manufactured | | | |
| Nozzle Size | Pressure (psi) | -25% | Median | +25% | Copper | Coal | Nickel | Iron | Olivine | Staurolite | Garnet | Silica | Zircon | Alumina | Glass | |
| 6 | 90 | 664 | 885 | 1106 | 856 | 851 | 757 | 846 | 836 | 868 | 894 | 801 | 872 | 836 | 843 | 815 |
| 7 | 90 | 997 | 1329 | 1661 | 1285 | 1278 | 1136 | 1270 | 1255 | 1303 | 1342 | 1203 | 1309 | 1255 | 1266 | 1223 |
| 8 | 90 | 1329 | 1772 | 2215 | 1713 | 1704 | 1515 | 1693 | 1674 | 1738 | 1789 | 1604 | 1746 | 1674 | 1689 | 1631 |
| 6 | 100 | 844 | 1125 | 1406 | 1201 | 1195 | 1063 | 1188 | 1174 | 1219 | 1255 | 1125 | 1224 | 1174 | 1184 | 1144 |
| 7 | 100 | 1266 | 1688 | 2110 | 1803 | 1794 | 1594 | 1782 | 1761 | 1829 | 1883 | 1688 | 1837 | 1761 | 1777 | 1716 |
| 8 | 100 | 1688 | 2250 | 2813 | 2403 | 2391 | 2125 | 2375 | 2348 | 2438 | 2510 | 2250 | 2449 | 2348 | 2368 | 2288 |
| 6 | 110 | 1063 | 1417 | 1771 | 1672 | 1663 | 1478 | 1652 | 1633 | 1696 | 1746 | 1565 | 1703 | 1633 | 1648 | 1591 |
| 7 | 110 | 1592 | 2123 | 2654 | 2504 | 2492 | 2215 | 2475 | 2447 | 2541 | 2616 | 2345 | 2552 | 2447 | 2469 | 2384 |
| 8 | 110 | 2123 | 2831 | 3539 | 3340 | 3323 | 2953 | 3301 | 3263 | 3388 | 3488 | 3127 | 3403 | 3263 | 3292 | 3179 |
| 6 | 125 | 1479 | 1972 | 2465 | 2701 | 2687 | 2388 | 2669 | 2639 | 2740 | 2821 | 2529 | 2752 | 2639 | 2662 | 2571 |
| 7 | 125 | 2219 | 2959 | 3699 | 4053 | 4032 | 3584 | 4006 | 3960 | 4111 | 4233 | 3795 | 4130 | 3960 | 3994 | 3858 |
| 8 | 125 | 2957 | 3943 | 4929 | 5400 | 5373 | 4776 | 5338 | 5276 | 5478 | 5640 | 5057 | 5503 | 5276 | 5323 | 5141 |

¹ Production rates are based on a consensus of replies to a user survey.

Light Rust, Millscale or Loose Paint

Soft Coating

Low Profile Range

SSPC-SP 6

Tables 1231 PC

| Operating Conditions | | Production Rate ft ² /hr of Blasting ¹ | | | | | | | | | | | | | | |
|----------------------|----------------|--|--------|------|-----------------------------|------|--------|------|--------------------------------|------------|--------|--------|--------------|---------|-------|------|
| | | Typical Mineral Abrasive | | | Refinery & By-Product Grits | | | | Natural or Mined Grits & Sands | | | | Manufactured | | | |
| Nozzle Size | Pressure (psi) | -25% | Median | +25% | Copper | Coal | Nickel | Iron | Olivine | Staurolite | Garnet | Silica | Zircon | Alumina | Glass | |
| 6 | 90 | 442 | 590 | 737 | 570 | 568 | 504 | 564 | 557 | 579 | 596 | 534 | 581 | 557 | 562 | 543 |
| 7 | 90 | 665 | 886 | 1108 | 857 | 852 | 758 | 847 | 837 | 869 | 895 | 802 | 873 | 837 | 844 | 815 |
| 8 | 90 | 886 | 1181 | 1476 | 1142 | 1136 | 1010 | 1129 | 1116 | 1158 | 1193 | 1069 | 1163 | 1116 | 1125 | 1087 |
| 6 | 100 | 563 | 750 | 938 | 801 | 797 | 708 | 792 | 783 | 813 | 837 | 750 | 816 | 783 | 789 | 763 |
| 7 | 100 | 844 | 1125 | 1406 | 1201 | 1195 | 1063 | 1188 | 1174 | 1219 | 1255 | 1125 | 1224 | 1174 | 1184 | 1144 |
| 8 | 100 | 1125 | 1500 | 1875 | 1602 | 1594 | 1417 | 1583 | 1565 | 1625 | 1673 | 1500 | 1632 | 1565 | 1579 | 1525 |
| 6 | 110 | 709 | 945 | 1181 | 1115 | 1109 | 986 | 1102 | 1089 | 1131 | 1164 | 1044 | 1136 | 1089 | 1099 | 1061 |
| 7 | 110 | 1061 | 1415 | 1769 | 1669 | 1661 | 1476 | 1650 | 1631 | 1693 | 1743 | 1563 | 1701 | 1631 | 1645 | 1589 |
| 8 | 110 | 1415 | 1887 | 2359 | 2226 | 2215 | 1969 | 2200 | 2175 | 2258 | 2325 | 2084 | 2268 | 2175 | 2194 | 2119 |
| 6 | 125 | 986 | 1314 | 1643 | 1800 | 1790 | 1591 | 1779 | 1758 | 1826 | 1880 | 1685 | 1834 | 1758 | 1774 | 1713 |
| 7 | 125 | 1480 | 1973 | 2466 | 2702 | 2688 | 2390 | 2671 | 2640 | 2741 | 2822 | 2530 | 2753 | 2640 | 2663 | 2572 |
| 8 | 125 | 1972 | 2629 | 3286 | 3601 | 3582 | 3184 | 3559 | 3518 | 3652 | 3761 | 3372 | 3669 | 3518 | 3549 | 3428 |

¹ Production rates are based on a consensus of replies to a user survey.

Light Rust, Millscale or Loose Paint

Soft Coating

Medium Profile Range

SSPC-SP 6

Tables 1232 PC

| Operating Conditions | | Production Rate ft ² /hr of Blasting ¹ | | | | | | | | | | | | | | |
|----------------------|----------------|--|--------|------|-----------------------------|------|--------|------|--------------------------------|------------|--------|--------|--------------|---------|-------|------|
| | | Typical Mineral Abrasive | | | Refinery & By-Product Grits | | | | Natural or Mined Grits & Sands | | | | Manufactured | | | |
| Nozzle Size | Pressure (psi) | -25% | Median | +25% | Copper | Coal | Nickel | Iron | Olivine | Staurolite | Garnet | Silica | Zircon | Alumina | Glass | |
| 6 | 90 | 221 | 295 | 369 | 285 | 284 | 252 | 282 | 279 | 289 | 298 | 267 | 291 | 279 | 281 | 272 |
| 7 | 90 | 332 | 443 | 554 | 428 | 426 | 379 | 423 | 418 | 434 | 447 | 401 | 436 | 418 | 422 | 408 |
| 8 | 90 | 443 | 591 | 739 | 571 | 568 | 505 | 565 | 558 | 580 | 597 | 535 | 582 | 558 | 563 | 544 |
| 6 | 100 | 281 | 375 | 469 | 400 | 398 | 354 | 396 | 391 | 406 | 418 | 375 | 408 | 391 | 395 | 381 |
| 7 | 100 | 422 | 563 | 704 | 601 | 598 | 532 | 594 | 587 | 610 | 628 | 563 | 613 | 587 | 593 | 572 |
| 8 | 100 | 562 | 750 | 937 | 801 | 797 | 708 | 792 | 783 | 813 | 837 | 750 | 816 | 783 | 789 | 762 |
| 6 | 110 | 354 | 472 | 590 | 557 | 554 | 492 | 550 | 544 | 565 | 582 | 521 | 567 | 544 | 549 | 530 |
| 7 | 110 | 531 | 708 | 885 | 835 | 831 | 739 | 826 | 816 | 847 | 872 | 782 | 851 | 816 | 823 | 795 |
| 8 | 110 | 708 | 944 | 1180 | 1114 | 1108 | 985 | 1101 | 1088 | 1130 | 1163 | 1043 | 1135 | 1088 | 1098 | 1060 |
| 6 | 125 | 493 | 657 | 821 | 900 | 895 | 796 | 889 | 879 | 913 | 940 | 843 | 917 | 879 | 887 | 857 |
| 7 | 125 | 740 | 986 | 1233 | 1350 | 1344 | 1194 | 1335 | 1319 | 1370 | 1410 | 1264 | 1376 | 1319 | 1331 | 1286 |
| 8 | 125 | 986 | 1314 | 1643 | 1800 | 1790 | 1591 | 1779 | 1758 | 1826 | 1880 | 1685 | 1834 | 1758 | 1774 | 1713 |

¹ Production rates are based on a consensus of replies to a user survey.

Light Rust, Millscale or Loose Paint

Soft Coating

High Profile Range

SSPC-SP 6

Tables 1233

PC

| Operating Conditions | | Production Rate ft ² /hr of Blasting ¹ | | | | | | | | | | | | | | | |
|----------------------|----------------|--|--------|------|-----------------------------|------|--------|------|--------------------------------|------------|--------|--------|--------------|---------|-------|------|------------|
| Nozzle Size | Pressure (psi) | Typical Mineral Abrasive | | | Refinery & By-Product Grits | | | | Natural or Mined Grits & Sands | | | | Manufactured | | | | Steel Iron |
| | | -25% | Median | +25% | Copper | Coal | Nickel | Iron | Olivine | Staurolite | Garnet | Silica | Zircon | Alumina | Glass | | |
| 6 | 90 | 591 | 788 | 985 | 762 | 758 | 674 | 753 | 744 | 773 | 796 | 713 | 776 | 744 | 751 | 725 | |
| 7 | 90 | 886 | 1181 | 1476 | 1142 | 1136 | 1010 | 1129 | 1116 | 1158 | 1193 | 1069 | 1163 | 1116 | 1125 | 1087 | |
| 8 | 90 | 1181 | 1574 | 1968 | 1522 | 1514 | 1346 | 1504 | 1487 | 1544 | 1589 | 1425 | 1551 | 1487 | 1500 | 1449 | |
| 6 | 100 | 750 | 1000 | 1250 | 1068 | 1063 | 944 | 1056 | 1043 | 1083 | 1115 | 1000 | 1088 | 1043 | 1053 | 1017 | |
| 7 | 100 | 1125 | 1500 | 1875 | 1602 | 1594 | 1417 | 1583 | 1565 | 1625 | 1673 | 1500 | 1632 | 1565 | 1579 | 1525 | |
| 8 | 100 | 1500 | 2000 | 2500 | 2136 | 2125 | 1889 | 2111 | 2087 | 2167 | 2231 | 2000 | 2176 | 2087 | 2105 | 2033 | |
| 6 | 110 | 944 | 1258 | 1573 | 1484 | 1476 | 1312 | 1467 | 1450 | 1505 | 1550 | 1390 | 1512 | 1450 | 1463 | 1413 | |
| 7 | 110 | 1416 | 1888 | 2360 | 2227 | 2216 | 1970 | 2201 | 2176 | 2259 | 2326 | 2086 | 2270 | 2176 | 2195 | 2120 | |
| 8 | 110 | 1889 | 2518 | 3148 | 2970 | 2955 | 2627 | 2936 | 2902 | 3013 | 3102 | 2781 | 3027 | 2902 | 2928 | 2828 | |
| 6 | 125 | 1315 | 1753 | 2191 | 2401 | 2389 | 2123 | 2373 | 2346 | 2435 | 2507 | 2248 | 2446 | 2346 | 2366 | 2286 | |
| 7 | 125 | 1972 | 2629 | 3286 | 3601 | 3582 | 3184 | 3559 | 3518 | 3652 | 3761 | 3372 | 3669 | 3518 | 3549 | 3428 | |
| 8 | 125 | 2630 | 3507 | 4384 | 4803 | 4779 | 4248 | 4747 | 4693 | 4872 | 5016 | 4497 | 4894 | 4693 | 4734 | 4572 | |

¹ Production rates are based on a consensus of replies to a user survey.

Light Rust, Millscale or Loose Paint

Soft Coating

Low Profile Range

SSPC-SP 7

Tables 1241

PC

| Operating Conditions | | Production Rate ft ² /hr of Blasting ¹ | | | | | | | | | | | | | | |
|----------------------|----------------|--|--------|------|-----------------------------|------|--------|------|--------------------------------|------------|--------|--------|--------------|---------|-------|------|
| | | Typical Mineral Abrasive | | | Refinery & By-Product Grits | | | | Natural or Mined Grits & Sands | | | | Manufactured | | | |
| Nozzle Size | Pressure (psi) | -25% | Median | +25% | Copper | Coal | Nickel | Iron | Olivine | Staurolite | Garnet | Silica | Zircon | Alumina | Glass | |
| 6 | 90 | 160 | 213 | 266 | 206 | 205 | 182 | 204 | 201 | 209 | 215 | 193 | 210 | 201 | 203 | 196 |
| 7 | 90 | 230 | 307 | 384 | 297 | 295 | 262 | 293 | 290 | 301 | 310 | 278 | 302 | 290 | 293 | 283 |
| 8 | 90 | 320 | 426 | 533 | 412 | 410 | 364 | 407 | 402 | 418 | 430 | 386 | 420 | 402 | 406 | 392 |
| 6 | 100 | 203 | 270 | 338 | 288 | 287 | 255 | 285 | 282 | 293 | 301 | 270 | 294 | 282 | 284 | 275 |
| 7 | 100 | 293 | 390 | 488 | 417 | 414 | 368 | 412 | 407 | 423 | 435 | 390 | 424 | 407 | 411 | 396 |
| 8 | 100 | 405 | 540 | 675 | 577 | 574 | 510 | 570 | 563 | 585 | 602 | 540 | 588 | 563 | 568 | 549 |
| 6 | 110 | 255 | 340 | 425 | 401 | 399 | 355 | 396 | 392 | 407 | 419 | 376 | 409 | 392 | 395 | 382 |
| 7 | 110 | 368 | 491 | 614 | 579 | 576 | 512 | 573 | 566 | 588 | 605 | 542 | 590 | 566 | 571 | 551 |
| 8 | 110 | 509 | 679 | 849 | 801 | 797 | 708 | 792 | 783 | 813 | 837 | 750 | 816 | 783 | 790 | 763 |
| 6 | 125 | 356 | 474 | 593 | 649 | 646 | 574 | 642 | 634 | 659 | 678 | 608 | 662 | 634 | 640 | 618 |
| 7 | 125 | 513 | 684 | 855 | 937 | 932 | 828 | 926 | 915 | 950 | 978 | 877 | 955 | 915 | 923 | 892 |
| 8 | 125 | 710 | 947 | 1184 | 1297 | 1290 | 1147 | 1282 | 1267 | 1316 | 1355 | 1214 | 1322 | 1267 | 1278 | 1235 |

¹ Production rates are based on a consensus of replies to a user survey.

Tight Rust or Millscale

Hard Coating

Low Profile Range

SSPC-SP 5

Tables 2111

PC

| Operating Conditions | | Production Rate ft²/hr of Blasting ¹ | | | | | | | | | | | | | | |
|----------------------|----------------|---|--------|------|-----------------------------|------|--------|------|--------------------------------|------------|--------|--------|--------------|---------|-------|-----|
| | | Typical Mineral Abrasive | | | Refinery & By-Product Grits | | | | Natural or Mined Grits & Sands | | | | Manufactured | | | |
| Nozzle Size | Pressure (psi) | -25% | Median | +25% | Copper | Coal | Nickel | Iron | Olivine | Staurolite | Garnet | Silica | Zircon | Alumina | Glass | |
| 6 | 90 | 107 | 142 | 178 | 137 | 137 | 121 | 136 | 134 | 139 | 143 | 129 | 140 | 134 | 135 | 131 |
| 7 | 90 | 153 | 204 | 255 | 197 | 196 | 174 | 195 | 193 | 200 | 206 | 185 | 201 | 193 | 194 | 188 |
| 8 | 90 | 213 | 284 | 355 | 275 | 273 | 243 | 271 | 268 | 279 | 287 | 257 | 280 | 268 | 271 | 261 |
| 6 | 100 | 135 | 180 | 225 | 192 | 191 | 170 | 190 | 188 | 195 | 201 | 180 | 196 | 188 | 189 | 183 |
| 7 | 100 | 195 | 260 | 325 | 278 | 276 | 246 | 274 | 271 | 282 | 290 | 260 | 283 | 271 | 274 | 264 |
| 8 | 100 | 270 | 360 | 450 | 384 | 383 | 340 | 380 | 376 | 390 | 402 | 360 | 392 | 376 | 379 | 366 |
| 6 | 110 | 170 | 226 | 283 | 267 | 265 | 236 | 264 | 260 | 270 | 278 | 250 | 272 | 260 | 263 | 254 |
| 7 | 110 | 246 | 328 | 410 | 387 | 385 | 342 | 382 | 378 | 393 | 404 | 362 | 394 | 378 | 381 | 368 |
| 8 | 110 | 340 | 453 | 566 | 534 | 532 | 473 | 528 | 522 | 542 | 558 | 500 | 545 | 522 | 527 | 509 |
| 6 | 125 | 237 | 316 | 395 | 433 | 431 | 383 | 428 | 423 | 439 | 452 | 405 | 441 | 423 | 427 | 412 |
| 7 | 125 | 342 | 456 | 570 | 625 | 621 | 552 | 617 | 610 | 634 | 652 | 585 | 636 | 610 | 616 | 595 |
| 8 | 125 | 473 | 631 | 789 | 864 | 860 | 764 | 854 | 844 | 877 | 903 | 809 | 881 | 844 | 852 | 823 |

¹ Production rates are based on a consensus of replies to a user survey.

Tight Rust or Millscale

Hard Coating

Medium Profile Range

SSPC-SP 5

Tables 2112

PC

| Operating Conditions | | Production Rate ft ² /hr of Blasting ¹ | | | | | | | | | | | | | | |
|----------------------|----------------|--|--------|------|-----------------------------|------|--------|------|--------------------------------|------------|--------|--------|--------------|---------|-------|-----|
| | | Typical Mineral Abrasive | | | Refinery & By-Product Grits | | | | Natural or Mined Grits & Sands | | | | Manufactured | | | |
| Nozzle Size | Pressure (psi) | -25% | Median | +25% | Copper | Coal | Nickel | Iron | Olivine | Staurolite | Garnet | Silica | Zircon | Alumina | Glass | |
| 6 | 90 | 53 | 71 | 89 | 69 | 68 | 61 | 68 | 67 | 70 | 72 | 64 | 70 | 67 | 68 | 65 |
| 7 | 90 | 77 | 102 | 128 | 99 | 98 | 87 | 97 | 96 | 100 | 103 | 92 | 100 | 96 | 97 | 94 |
| 8 | 90 | 107 | 142 | 178 | 137 | 137 | 121 | 136 | 134 | 139 | 143 | 129 | 140 | 134 | 135 | 131 |
| 6 | 100 | 68 | 90 | 113 | 96 | 96 | 85 | 95 | 94 | 98 | 100 | 90 | 98 | 94 | 95 | 92 |
| 7 | 100 | 98 | 130 | 163 | 139 | 138 | 123 | 137 | 136 | 141 | 145 | 130 | 141 | 136 | 137 | 132 |
| 8 | 100 | 135 | 180 | 225 | 192 | 191 | 170 | 190 | 188 | 195 | 201 | 180 | 196 | 188 | 189 | 183 |
| 6 | 110 | 85 | 113 | 141 | 133 | 133 | 118 | 132 | 130 | 135 | 139 | 125 | 136 | 130 | 131 | 127 |
| 7 | 110 | 123 | 164 | 205 | 193 | 192 | 171 | 191 | 189 | 196 | 202 | 181 | 197 | 189 | 191 | 184 |
| 8 | 110 | 170 | 226 | 283 | 267 | 265 | 236 | 264 | 260 | 270 | 278 | 250 | 272 | 260 | 263 | 254 |
| 6 | 125 | 119 | 158 | 198 | 216 | 215 | 191 | 214 | 211 | 220 | 226 | 203 | 221 | 211 | 213 | 206 |
| 7 | 125 | 171 | 228 | 285 | 312 | 311 | 276 | 309 | 305 | 317 | 326 | 292 | 318 | 305 | 308 | 297 |
| 8 | 125 | 237 | 316 | 395 | 433 | 431 | 383 | 428 | 423 | 439 | 452 | 405 | 441 | 423 | 427 | 412 |

¹ Production rates are based on a consensus of replies to a user survey.

Tight Rust or Millscale

Hard Coating

High Profile Range

SSPC-SP 5

Tables 2113

PC

| Operating Conditions | | Production Rate ft ² /hr of Blasting ¹ | | | | | | | | | | | | | | |
|----------------------|----------------|--|--------|------|-----------------------------|------|--------|------|--------------------------------|------------|--------|--------|--------------|---------|-------|------|
| | | Typical Mineral Abrasive | | | Refinery & By-Product Grits | | | | Natural or Mined Grits & Sands | | | | Manufactured | | | |
| Nozzle Size | Pressure (psi) | -25% | Median | +25% | Copper | Coal | Nickel | Iron | Olivine | Staurolite | Garnet | Silica | Zircon | Alumina | Glass | |
| 6 | 90 | 177 | 236 | 295 | 228 | 227 | 202 | 226 | 223 | 231 | 238 | 214 | 232 | 223 | 225 | 217 |
| 7 | 90 | 248 | 330 | 413 | 319 | 317 | 282 | 315 | 312 | 324 | 333 | 299 | 325 | 312 | 314 | 304 |
| 8 | 90 | 346 | 461 | 576 | 446 | 443 | 394 | 441 | 435 | 452 | 465 | 417 | 454 | 435 | 439 | 424 |
| 6 | 100 | 225 | 300 | 375 | 320 | 319 | 283 | 317 | 313 | 325 | 335 | 300 | 326 | 313 | 316 | 305 |
| 7 | 100 | 315 | 420 | 525 | 449 | 446 | 397 | 443 | 438 | 455 | 468 | 420 | 457 | 438 | 442 | 427 |
| 8 | 100 | 439 | 585 | 731 | 625 | 622 | 553 | 618 | 610 | 634 | 653 | 585 | 637 | 610 | 616 | 595 |
| 6 | 110 | 283 | 377 | 471 | 445 | 442 | 393 | 440 | 435 | 451 | 464 | 416 | 453 | 435 | 438 | 423 |
| 7 | 110 | 397 | 529 | 661 | 624 | 621 | 552 | 617 | 610 | 633 | 652 | 584 | 636 | 610 | 615 | 594 |
| 8 | 110 | 552 | 736 | 920 | 868 | 864 | 768 | 858 | 848 | 881 | 907 | 813 | 885 | 848 | 856 | 827 |
| 6 | 125 | 395 | 527 | 659 | 722 | 718 | 638 | 713 | 705 | 732 | 754 | 676 | 735 | 705 | 711 | 687 |
| 7 | 125 | 553 | 737 | 921 | 1009 | 1004 | 893 | 998 | 986 | 1024 | 1054 | 945 | 1029 | 986 | 995 | 961 |
| 8 | 125 | 770 | 1026 | 1283 | 1405 | 1398 | 1243 | 1389 | 1373 | 1425 | 1468 | 1316 | 1432 | 1373 | 1385 | 1338 |

¹ Production rates are based on a consensus of replies to a user survey.

Tight Rust or Millscale

Hard Coating

Low Profile Range

SSPC-SP 10

Tables 2121

PC

| Operating Conditions | | Production Rate ft ² /hr of Blasting ¹ | | | | | | | | | | | | | | |
|----------------------|----------------|--|--------|------|-----------------------------|------|--------|------|--------------------------------|------------|--------|--------|--------------|---------|-------|------|
| | | Typical Mineral Abrasive | | | Refinery & By-Product Grits | | | | Natural or Mined Grits & Sands | | | | Manufactured | | | |
| Nozzle Size | Pressure (psi) | -25% | Median | +25% | Copper | Coal | Nickel | Iron | Olivine | Staurolite | Garnet | Silica | Zircon | Alumina | Glass | Iron |
| 6 | 90 | 119 | 158 | 198 | 153 | 152 | 135 | 151 | 149 | 155 | 160 | 143 | 156 | 149 | 151 | 145 |
| 7 | 90 | 165 | 220 | 275 | 213 | 212 | 188 | 210 | 208 | 216 | 222 | 199 | 217 | 208 | 210 | 202 |
| 8 | 90 | 230 | 307 | 384 | 297 | 295 | 262 | 293 | 290 | 301 | 310 | 278 | 302 | 290 | 293 | 283 |
| 6 | 100 | 150 | 200 | 250 | 214 | 213 | 189 | 211 | 209 | 217 | 223 | 200 | 218 | 209 | 211 | 203 |
| 7 | 100 | 210 | 280 | 350 | 299 | 298 | 264 | 296 | 292 | 303 | 312 | 280 | 305 | 292 | 295 | 285 |
| 8 | 100 | 293 | 390 | 488 | 417 | 414 | 368 | 412 | 407 | 423 | 435 | 390 | 424 | 407 | 411 | 396 |
| 6 | 110 | 189 | 252 | 315 | 297 | 296 | 263 | 294 | 290 | 302 | 310 | 278 | 303 | 290 | 293 | 283 |
| 7 | 110 | 265 | 353 | 441 | 416 | 414 | 368 | 412 | 407 | 422 | 435 | 390 | 424 | 407 | 410 | 396 |
| 8 | 110 | 368 | 491 | 614 | 579 | 576 | 512 | 573 | 566 | 588 | 605 | 542 | 590 | 566 | 571 | 551 |
| 6 | 125 | 263 | 351 | 439 | 481 | 478 | 425 | 475 | 470 | 488 | 502 | 450 | 490 | 470 | 474 | 458 |
| 7 | 125 | 368 | 491 | 614 | 672 | 669 | 595 | 665 | 657 | 682 | 702 | 630 | 685 | 657 | 663 | 640 |
| 8 | 125 | 513 | 684 | 855 | 937 | 932 | 828 | 926 | 915 | 950 | 978 | 877 | 955 | 915 | 923 | 892 |

¹ Production rates are based on a consensus of replies to a user survey.

Tight Rust or Millscale

Hard Coating

Medium Profile Range

SSPC-SP 10

Tables 2122

PC

| Operating Conditions | | Production Rate ft ² /hr of Blasting ¹ | | | | | | | | | | | | | | |
|----------------------|----------------|--|--------|------|-----------------------------|------|--------|------|--------------------------------|------------|--------|--------|--------------|---------|-------|------|
| | | Typical Mineral Abrasive | | | Refinery & By-Product Grits | | | | Natural or Mined Grits & Sands | | | | Manufactured | | | |
| Nozzle Size | Pressure (psi) | -25% | Median | +25% | Copper | Coal | Nickel | Iron | Olivine | Staurolite | Garnet | Silica | Zircon | Alumina | Glass | Iron |
| 6 | 90 | 59 | 79 | 99 | 76 | 76 | 68 | 75 | 75 | 77 | 80 | 72 | 78 | 75 | 75 | 73 |
| 7 | 90 | 83 | 110 | 138 | 106 | 106 | 94 | 105 | 104 | 108 | 111 | 100 | 108 | 104 | 105 | 101 |
| 8 | 90 | 115 | 154 | 192 | 149 | 148 | 132 | 147 | 145 | 151 | 156 | 139 | 152 | 145 | 147 | 142 |
| 6 | 100 | 75 | 100 | 125 | 107 | 106 | 94 | 106 | 104 | 108 | 112 | 100 | 109 | 104 | 105 | 102 |
| 7 | 100 | 105 | 140 | 175 | 150 | 149 | 132 | 148 | 146 | 152 | 156 | 140 | 152 | 146 | 147 | 142 |
| 8 | 100 | 146 | 195 | 244 | 208 | 207 | 184 | 206 | 203 | 211 | 217 | 195 | 212 | 203 | 205 | 198 |
| 6 | 110 | 95 | 126 | 158 | 149 | 148 | 131 | 147 | 145 | 151 | 155 | 139 | 151 | 145 | 147 | 142 |
| 7 | 110 | 132 | 176 | 220 | 208 | 207 | 184 | 205 | 203 | 211 | 217 | 194 | 212 | 203 | 205 | 198 |
| 8 | 110 | 184 | 245 | 306 | 289 | 288 | 256 | 286 | 282 | 293 | 302 | 271 | 295 | 282 | 285 | 275 |
| 6 | 125 | 132 | 176 | 220 | 241 | 240 | 213 | 238 | 236 | 245 | 252 | 226 | 246 | 236 | 238 | 229 |
| 7 | 125 | 185 | 246 | 308 | 337 | 335 | 298 | 333 | 329 | 342 | 352 | 315 | 343 | 329 | 332 | 321 |
| 8 | 125 | 257 | 342 | 428 | 468 | 466 | 414 | 463 | 458 | 475 | 489 | 439 | 477 | 458 | 462 | 446 |

¹ Production rates are based on a consensus of replies to a user survey.

Tight Rust or Millscale

Hard Coating

High Profile Range

SSPC-SP 10

Tables 2123

PC

| Operating Conditions | | Production Rate ft ² /hr of Blasting ¹ | | | | | | | | | | | | | | |
|----------------------|----------------|--|--------|------|-----------------------------|------|--------|------|--------------------------------|------------|--------|--------|--------------|---------|-------|------|
| | | Typical Mineral Abrasive | | | Refinery & By-Product Grits | | | | Natural or Mined Grits & Sands | | | | Manufactured | | | |
| Nozzle Size | Pressure (psi) | -25% | Median | +25% | Copper | Coal | Nickel | Iron | Olivine | Staurolite | Garnet | Silica | Zircon | Alumina | Glass | |
| 6 | 90 | 355 | 473 | 591 | 457 | 455 | 404 | 452 | 447 | 464 | 478 | 428 | 466 | 447 | 451 | 435 |
| 7 | 90 | 532 | 709 | 886 | 685 | 682 | 606 | 678 | 670 | 695 | 716 | 642 | 698 | 670 | 676 | 653 |
| 8 | 90 | 709 | 945 | 1181 | 914 | 909 | 808 | 903 | 893 | 927 | 954 | 855 | 931 | 893 | 901 | 870 |
| 6 | 100 | 450 | 600 | 750 | 641 | 638 | 567 | 633 | 626 | 650 | 669 | 600 | 653 | 626 | 632 | 610 |
| 7 | 100 | 675 | 900 | 1125 | 961 | 956 | 850 | 950 | 939 | 975 | 1004 | 900 | 979 | 939 | 947 | 915 |
| 8 | 100 | 900 | 1200 | 1500 | 1282 | 1275 | 1133 | 1267 | 1252 | 1300 | 1338 | 1200 | 1306 | 1252 | 1263 | 1220 |
| 6 | 110 | 566 | 755 | 944 | 891 | 886 | 788 | 880 | 870 | 903 | 930 | 834 | 908 | 870 | 878 | 848 |
| 7 | 110 | 849 | 1132 | 1415 | 1335 | 1329 | 1181 | 1320 | 1305 | 1355 | 1395 | 1250 | 1361 | 1305 | 1316 | 1271 |
| 8 | 110 | 1133 | 1510 | 1888 | 1781 | 1772 | 1575 | 1761 | 1741 | 1807 | 1860 | 1668 | 1815 | 1741 | 1756 | 1696 |
| 6 | 125 | 788 | 1051 | 1314 | 1439 | 1432 | 1273 | 1423 | 1406 | 1460 | 1503 | 1348 | 1467 | 1406 | 1419 | 1370 |
| 7 | 125 | 1183 | 1578 | 1972 | 2161 | 2150 | 1911 | 2136 | 2112 | 2192 | 2257 | 2024 | 2202 | 2112 | 2130 | 2057 |
| 8 | 125 | 1578 | 2104 | 2630 | 2882 | 2867 | 2548 | 2848 | 2816 | 2923 | 3010 | 2698 | 2936 | 2816 | 2840 | 2743 |

¹ Production rates are based on a consensus of replies to a user survey.

Tight Rust or Millscale

Hard Coating

Low Profile Range

SSPC-SP 6

Tables 2131

PC

| Operating Conditions | | Production Rate ft²/hr of Blasting ¹ | | | | | | | | | | | | | | |
|----------------------|----------------|---|--------|------|-----------------------------|------|--------|------|--------------------------------|------------|--------|--------|--------------|---------|-------|------------|
| | | Typical Mineral Abrasive | | | Refinery & By-Product Grits | | | | Natural or Mined Grits & Sands | | | | Manufactured | | | |
| Nozzle Size | Pressure (psi) | -25% | Median | +25% | Copper | Coal | Nickel | Iron | Olivine | Staurolite | Garnet | Silica | Zircon | Alumina | Glass | Steel Iron |
| 6 | 90 | 236 | 315 | 394 | 305 | 303 | 269 | 301 | 298 | 309 | 318 | 285 | 310 | 298 | 300 | 290 |
| 7 | 90 | 355 | 473 | 591 | 457 | 455 | 404 | 452 | 447 | 464 | 478 | 428 | 466 | 447 | 451 | 435 |
| 8 | 90 | 472 | 630 | 787 | 609 | 606 | 539 | 602 | 595 | 618 | 636 | 570 | 621 | 595 | 600 | 580 |
| 6 | 100 | 300 | 400 | 500 | 427 | 425 | 378 | 422 | 417 | 433 | 446 | 400 | 435 | 417 | 421 | 407 |
| 7 | 100 | 450 | 600 | 750 | 641 | 638 | 567 | 633 | 626 | 650 | 669 | 600 | 653 | 626 | 632 | 610 |
| 8 | 100 | 600 | 800 | 1000 | 854 | 850 | 756 | 844 | 835 | 867 | 892 | 800 | 871 | 835 | 842 | 813 |
| 6 | 110 | 377 | 503 | 629 | 593 | 590 | 525 | 586 | 580 | 602 | 620 | 556 | 605 | 580 | 585 | 565 |
| 7 | 110 | 566 | 755 | 944 | 891 | 886 | 788 | 880 | 870 | 903 | 930 | 834 | 908 | 870 | 878 | 848 |
| 8 | 110 | 755 | 1007 | 1259 | 1188 | 1182 | 1051 | 1174 | 1161 | 1205 | 1241 | 1112 | 1211 | 1161 | 1171 | 1131 |
| 6 | 125 | 526 | 701 | 876 | 960 | 955 | 849 | 949 | 938 | 974 | 1003 | 899 | 978 | 938 | 946 | 914 |
| 7 | 125 | 789 | 1052 | 1315 | 1441 | 1433 | 1274 | 1424 | 1408 | 1462 | 1505 | 1349 | 1468 | 1408 | 1420 | 1372 |
| 8 | 125 | 1052 | 1403 | 1754 | 1922 | 1912 | 1699 | 1899 | 1877 | 1949 | 2007 | 1799 | 1958 | 1877 | 1894 | 1829 |

¹ Production rates are based on a consensus of replies to a user survey.

Tight Rust or Millscale

Hard Coating

Medium Profile Range

SSPC-SP 6

Tables 2132

PC

| Operating Conditions | | Production Rate ft ² /hr of Blasting ¹ | | | | | | | | | | | | | | |
|----------------------|----------------|--|--------|------|-----------------------------|------|--------|------|--------------------------------|------------|--------|--------|--------------|---------|-------|------|
| | | Typical Mineral Abrasive | | | Refinery & By-Product Grits | | | | Natural or Mined Grits & Sands | | | | Manufactured | | | |
| Nozzle Size | Pressure (psi) | -25% | Median | +25% | Copper | Coal | Nickel | Iron | Olivine | Staurolite | Garnet | Silica | Zircon | Alumina | Glass | Iron |
| 6 | 90 | 119 | 158 | 198 | 153 | 152 | 135 | 151 | 149 | 155 | 160 | 143 | 156 | 149 | 151 | 145 |
| 7 | 90 | 177 | 236 | 295 | 228 | 227 | 202 | 226 | 223 | 231 | 238 | 214 | 232 | 223 | 225 | 217 |
| 8 | 90 | 236 | 315 | 394 | 305 | 303 | 269 | 301 | 298 | 309 | 318 | 285 | 310 | 298 | 300 | 290 |
| 6 | 100 | 150 | 200 | 250 | 214 | 213 | 189 | 211 | 209 | 217 | 223 | 200 | 218 | 209 | 211 | 203 |
| 7 | 100 | 225 | 300 | 375 | 320 | 319 | 283 | 317 | 313 | 325 | 335 | 300 | 326 | 313 | 316 | 305 |
| 8 | 100 | 300 | 400 | 500 | 427 | 425 | 378 | 422 | 417 | 433 | 446 | 400 | 435 | 417 | 421 | 407 |
| 6 | 110 | 189 | 252 | 315 | 297 | 296 | 263 | 294 | 290 | 302 | 310 | 278 | 303 | 290 | 293 | 283 |
| 7 | 110 | 283 | 377 | 471 | 445 | 442 | 393 | 440 | 435 | 451 | 464 | 416 | 453 | 435 | 438 | 423 |
| 8 | 110 | 377 | 503 | 629 | 593 | 590 | 525 | 586 | 580 | 602 | 620 | 556 | 605 | 580 | 585 | 565 |
| 6 | 125 | 263 | 350 | 438 | 479 | 477 | 424 | 474 | 468 | 486 | 501 | 449 | 488 | 468 | 472 | 456 |
| 7 | 125 | 395 | 526 | 658 | 720 | 717 | 637 | 712 | 704 | 731 | 752 | 675 | 734 | 704 | 710 | 686 |
| 8 | 125 | 526 | 701 | 876 | 960 | 955 | 849 | 949 | 938 | 974 | 1003 | 899 | 978 | 938 | 946 | 914 |

¹ Production rates are based on a consensus of replies to a user survey.

Tight Rust or Millscale

Hard Coating

High Profile Range

SSPC-SP 6

Tables 2133

PC

| Operating Conditions | | Production Rate ft ² /hr of Blasting ¹ | | | | | | | | | | | | | | | |
|----------------------|----------------|--|--------|------|-----------------------------|------|--------|------|--------------------------------|------------|--------|--------|--------------|---------|-------|------|------------|
| Nozzle Size | Pressure (psi) | Typical Mineral Abrasive | | | Refinery & By-Product Grits | | | | Natural or Mined Grits & Sands | | | | Manufactured | | | | Steel Iron |
| | | -25% | Median | +25% | Copper | Coal | Nickel | Iron | Olivine | Staurolite | Garnet | Silica | Zircon | Alumina | Glass | | |
| 6 | 90 | 591 | 788 | 985 | 762 | 758 | 674 | 753 | 744 | 773 | 796 | 713 | 776 | 744 | 751 | 725 | |
| 7 | 90 | 886 | 1181 | 1476 | 1142 | 1136 | 1010 | 1129 | 1116 | 1158 | 1193 | 1069 | 1163 | 1116 | 1125 | 1087 | |
| 8 | 90 | 1181 | 1574 | 1968 | 1522 | 1514 | 1346 | 1504 | 1487 | 1544 | 1589 | 1425 | 1551 | 1487 | 1500 | 1449 | |
| 6 | 100 | 750 | 1000 | 1250 | 1068 | 1063 | 944 | 1056 | 1043 | 1083 | 1115 | 1000 | 1088 | 1043 | 1053 | 1017 | |
| 7 | 100 | 1125 | 1500 | 1875 | 1602 | 1594 | 1417 | 1583 | 1565 | 1625 | 1673 | 1500 | 1632 | 1565 | 1579 | 1525 | |
| 8 | 100 | 1500 | 2000 | 2500 | 2136 | 2125 | 1889 | 2111 | 2087 | 2167 | 2231 | 2000 | 2176 | 2087 | 2105 | 2033 | |
| 6 | 110 | 944 | 1258 | 1573 | 1484 | 1476 | 1312 | 1467 | 1450 | 1505 | 1550 | 1390 | 1512 | 1450 | 1463 | 1413 | |
| 7 | 110 | 1416 | 1888 | 2360 | 2227 | 2216 | 1970 | 2201 | 2176 | 2259 | 2326 | 2086 | 2270 | 2176 | 2195 | 2120 | |
| 8 | 110 | 1889 | 2518 | 3148 | 2970 | 2955 | 2627 | 2936 | 2902 | 3013 | 3102 | 2781 | 3027 | 2902 | 2928 | 2828 | |
| 6 | 125 | 1315 | 1753 | 2191 | 2401 | 2389 | 2123 | 2373 | 2346 | 2435 | 2507 | 2248 | 2446 | 2346 | 2366 | 2286 | |
| 7 | 125 | 1972 | 2629 | 3286 | 3601 | 3582 | 3184 | 3559 | 3518 | 3652 | 3761 | 3372 | 3669 | 3518 | 3549 | 3428 | |
| 8 | 125 | 2630 | 3507 | 4384 | 4803 | 4779 | 4248 | 4747 | 4693 | 4872 | 5016 | 4497 | 4894 | 4693 | 4734 | 4572 | |

¹ Production rates are based on a consensus of replies to a user survey.

Tight Rust or Millscale

Hard Coating

Low Profile Range

SSPC-SP 7

Tables 2141

PC

| Operating Conditions | | Production Rate ft ² /hr of Blasting ¹ | | | | | | | | | | | | | | | |
|----------------------|----------------|--|--------|------|-----------------------------|------|--------|------|--------------------------------|------------|--------|--------|--------------|---------|-------|------|------------|
| Nozzle Size | Pressure (psi) | Typical Mineral Abrasive | | | Refinery & By-Product Grits | | | | Natural or Mined Grits & Sands | | | | Manufactured | | | | Steel Iron |
| | | -25% | Median | +25% | Copper | Coal | Nickel | Iron | Olivine | Staurolite | Garnet | Silica | Zircon | Alumina | Glass | | |
| 6 | 90 | 239 | 319 | 399 | 308 | 307 | 273 | 305 | 301 | 313 | 322 | 289 | 314 | 301 | 304 | 294 | |
| 7 | 90 | 345 | 460 | 575 | 445 | 442 | 393 | 440 | 435 | 451 | 464 | 416 | 453 | 435 | 438 | 423 | |
| 8 | 90 | 479 | 638 | 798 | 617 | 614 | 545 | 610 | 603 | 626 | 644 | 578 | 629 | 603 | 608 | 587 | |
| 6 | 100 | 304 | 405 | 506 | 433 | 430 | 383 | 428 | 423 | 439 | 452 | 405 | 441 | 423 | 426 | 412 | |
| 7 | 100 | 439 | 585 | 731 | 625 | 622 | 552 | 617 | 610 | 634 | 653 | 585 | 637 | 610 | 616 | 595 | |
| 8 | 100 | 607 | 810 | 1013 | 865 | 861 | 765 | 855 | 845 | 878 | 903 | 810 | 881 | 845 | 853 | 823 | |
| 6 | 110 | 382 | 509 | 636 | 600 | 597 | 531 | 593 | 587 | 609 | 627 | 562 | 612 | 587 | 592 | 572 | |
| 7 | 110 | 553 | 737 | 921 | 869 | 865 | 769 | 859 | 850 | 882 | 908 | 814 | 886 | 850 | 857 | 828 | |
| 8 | 110 | 764 | 1019 | 1274 | 1202 | 1196 | 1063 | 1188 | 1175 | 1219 | 1255 | 1126 | 1225 | 1175 | 1185 | 1144 | |
| 6 | 125 | 532 | 710 | 887 | 972 | 967 | 860 | 961 | 950 | 986 | 1016 | 911 | 991 | 950 | 958 | 926 | |
| 7 | 125 | 770 | 1026 | 1283 | 1405 | 1398 | 1243 | 1389 | 1373 | 1425 | 1468 | 1316 | 1432 | 1373 | 1385 | 1338 | |
| 8 | 125 | 1066 | 1421 | 1776 | 1946 | 1936 | 1721 | 1924 | 1902 | 1974 | 2033 | 1822 | 1983 | 1902 | 1918 | 1853 | |

¹ Production rates are based on a consensus of replies to a user survey.

Tight Rust or Millscale

Soft Coating

Low Profile Range

SSPC-SP 5

Tables 2211

PC

| Operating Conditions | | Production Rate ft ² /hr of Blasting ¹ | | | | | | | | | | | | | | |
|----------------------|----------------|--|--------|------|-----------------------------|------|--------|------|--------------------------------|------------|--------|--------|--------------|---------|-------|------|
| | | Typical Mineral Abrasive | | | Refinery & By-Product Grits | | | | Natural or Mined Grits & Sands | | | | Manufactured | | | |
| Nozzle Size | Pressure (psi) | -25% | Median | +25% | Copper | Coal | Nickel | Iron | Olivine | Staurolite | Garnet | Silica | Zircon | Alumina | Glass | Iron |
| 6 | 90 | 160 | 213 | 266 | 206 | 205 | 182 | 204 | 201 | 209 | 215 | 193 | 210 | 201 | 203 | 196 |
| 7 | 90 | 230 | 307 | 384 | 297 | 295 | 262 | 293 | 290 | 301 | 310 | 278 | 302 | 290 | 293 | 283 |
| 8 | 90 | 320 | 426 | 533 | 412 | 410 | 364 | 407 | 402 | 418 | 430 | 386 | 420 | 402 | 406 | 392 |
| 6 | 100 | 203 | 270 | 338 | 288 | 287 | 255 | 285 | 282 | 293 | 301 | 270 | 294 | 282 | 284 | 275 |
| 7 | 100 | 293 | 390 | 488 | 417 | 414 | 368 | 412 | 407 | 423 | 435 | 390 | 424 | 407 | 411 | 396 |
| 8 | 100 | 405 | 540 | 675 | 577 | 574 | 510 | 570 | 563 | 585 | 602 | 540 | 588 | 563 | 568 | 549 |
| 6 | 110 | 255 | 340 | 425 | 401 | 399 | 355 | 396 | 392 | 407 | 419 | 376 | 409 | 392 | 395 | 382 |
| 7 | 110 | 368 | 491 | 614 | 579 | 576 | 512 | 573 | 566 | 588 | 605 | 542 | 590 | 566 | 571 | 551 |
| 8 | 110 | 509 | 679 | 849 | 801 | 797 | 708 | 792 | 783 | 813 | 837 | 750 | 816 | 783 | 790 | 763 |
| 6 | 125 | 356 | 474 | 593 | 649 | 646 | 574 | 642 | 634 | 659 | 678 | 608 | 662 | 634 | 640 | 618 |
| 7 | 125 | 513 | 684 | 855 | 937 | 932 | 828 | 926 | 915 | 950 | 978 | 877 | 955 | 915 | 923 | 892 |
| 8 | 125 | 710 | 947 | 1184 | 1297 | 1290 | 1147 | 1282 | 1267 | 1316 | 1355 | 1214 | 1322 | 1267 | 1278 | 1235 |

¹ Production rates are based on a consensus of replies to a user survey.

Tight Rust or Millscale

Soft Coating

Medium Profile Range

SSPC-SP 5

Tables 2212

PC

| Operating Conditions | | Production Rate ft ² /hr of Blasting ¹ | | | | | | | | | | | | | | |
|----------------------|----------------|--|--------|------|-----------------------------|------|--------|------|--------------------------------|------------|--------|--------|--------------|---------|-------|-----|
| | | Typical Mineral Abrasive | | | Refinery & By-Product Grits | | | | Natural or Mined Grits & Sands | | | | Manufactured | | | |
| Nozzle Size | Pressure (psi) | -25% | Median | +25% | Copper | Coal | Nickel | Iron | Olivine | Staurolite | Garnet | Silica | Zircon | Alumina | Glass | |
| 6 | 90 | 80 | 106 | 133 | 102 | 102 | 91 | 101 | 100 | 104 | 107 | 96 | 104 | 100 | 101 | 98 |
| 7 | 90 | 115 | 153 | 191 | 148 | 147 | 131 | 146 | 145 | 150 | 154 | 139 | 151 | 145 | 146 | 141 |
| 8 | 90 | 160 | 213 | 266 | 206 | 205 | 182 | 204 | 201 | 209 | 215 | 193 | 210 | 201 | 203 | 196 |
| 6 | 100 | 101 | 135 | 169 | 144 | 143 | 128 | 143 | 141 | 146 | 151 | 135 | 147 | 141 | 142 | 137 |
| 7 | 100 | 146 | 195 | 244 | 208 | 207 | 184 | 206 | 203 | 211 | 218 | 195 | 212 | 203 | 205 | 198 |
| 8 | 100 | 203 | 270 | 338 | 288 | 287 | 255 | 285 | 282 | 293 | 301 | 270 | 294 | 282 | 284 | 275 |
| 6 | 110 | 128 | 170 | 213 | 201 | 200 | 177 | 198 | 196 | 203 | 209 | 188 | 204 | 196 | 198 | 191 |
| 7 | 110 | 185 | 246 | 308 | 290 | 289 | 257 | 287 | 284 | 294 | 303 | 272 | 296 | 284 | 286 | 276 |
| 8 | 110 | 255 | 340 | 425 | 401 | 399 | 355 | 396 | 392 | 407 | 419 | 376 | 409 | 392 | 395 | 382 |
| 6 | 125 | 178 | 237 | 296 | 325 | 323 | 287 | 321 | 317 | 329 | 339 | 304 | 331 | 317 | 320 | 309 |
| 7 | 125 | 257 | 342 | 428 | 468 | 466 | 414 | 463 | 458 | 475 | 489 | 439 | 477 | 458 | 462 | 446 |
| 8 | 125 | 356 | 474 | 593 | 649 | 646 | 574 | 642 | 634 | 659 | 678 | 608 | 662 | 634 | 640 | 618 |

¹ Production rates are based on a consensus of replies to a user survey.

Tight Rust or Millscale

Soft Coating

High Profile Range

SSPC-SP 5

Tables 2213

PC

| Operating Conditions | | Production Rate ft²/hr of Blasting ¹ | | | | | | | | | | | | | | |
|----------------------|----------------|---|--------|------|-----------------------------|------|--------|------|--------------------------------|------------|--------|--------|--------------|---------|-------|------------|
| | | Typical Mineral Abrasive | | | Refinery & By-Product Grits | | | | Natural or Mined Grits & Sands | | | | Manufactured | | | |
| Nozzle Size | Pressure (psi) | -25% | Median | +25% | Copper | Coal | Nickel | Iron | Olivine | Staurolite | Garnet | Silica | Zircon | Alumina | Glass | Steel Iron |
| 6 | 90 | 266 | 354 | 443 | 342 | 341 | 303 | 338 | 334 | 347 | 357 | 320 | 349 | 334 | 337 | 326 |
| 7 | 90 | 371 | 495 | 619 | 479 | 476 | 423 | 473 | 468 | 485 | 500 | 448 | 488 | 468 | 472 | 456 |
| 8 | 90 | 518 | 691 | 864 | 668 | 665 | 591 | 660 | 653 | 678 | 698 | 626 | 681 | 653 | 658 | 636 |
| 6 | 100 | 338 | 450 | 563 | 481 | 478 | 425 | 475 | 470 | 488 | 502 | 450 | 490 | 470 | 474 | 458 |
| 7 | 100 | 473 | 630 | 788 | 673 | 669 | 595 | 665 | 657 | 683 | 703 | 630 | 686 | 657 | 663 | 641 |
| 8 | 100 | 659 | 878 | 1098 | 938 | 933 | 829 | 927 | 916 | 951 | 979 | 878 | 955 | 916 | 924 | 893 |
| 6 | 110 | 425 | 566 | 708 | 668 | 664 | 590 | 660 | 652 | 677 | 697 | 625 | 680 | 652 | 658 | 636 |
| 7 | 110 | 595 | 794 | 992 | 937 | 932 | 828 | 926 | 915 | 950 | 978 | 877 | 954 | 915 | 923 | 892 |
| 8 | 110 | 828 | 1104 | 1380 | 1302 | 1296 | 1152 | 1287 | 1273 | 1321 | 1360 | 1220 | 1327 | 1273 | 1284 | 1240 |
| 6 | 125 | 592 | 790 | 987 | 1082 | 1076 | 957 | 1069 | 1057 | 1098 | 1130 | 1013 | 1103 | 1057 | 1066 | 1030 |
| 7 | 125 | 829 | 1105 | 1381 | 1513 | 1506 | 1338 | 1496 | 1479 | 1535 | 1581 | 1417 | 1542 | 1479 | 1492 | 1441 |
| 8 | 125 | 1154 | 1538 | 1923 | 2106 | 2096 | 1863 | 2082 | 2058 | 2137 | 2200 | 1972 | 2146 | 2058 | 2076 | 2005 |

¹ Production rates are based on a consensus of replies to a user survey.

Tight Rust or Millscale

Soft Coating

Low Profile Range

SSPC-SP 10

Tables 2221

PC

| Operating Conditions | | Production Rate ft ² /hr of Blasting ¹ | | | | | | | | | | | | | | |
|----------------------|----------------|--|--------|------|-----------------------------|------|--------|------|--------------------------------|------------|--------|--------|--------------|---------|-------|------|
| | | Typical Mineral Abrasive | | | Refinery & By-Product Grits | | | | Natural or Mined Grits & Sands | | | | Manufactured | | | |
| Nozzle Size | Pressure (psi) | -25% | Median | +25% | Copper | Coal | Nickel | Iron | Olivine | Staurolite | Garnet | Silica | Zircon | Alumina | Glass | |
| 6 | 90 | 177 | 236 | 295 | 228 | 227 | 202 | 226 | 223 | 231 | 238 | 214 | 232 | 223 | 225 | 217 |
| 7 | 90 | 248 | 330 | 413 | 319 | 317 | 282 | 315 | 312 | 324 | 333 | 299 | 325 | 312 | 314 | 304 |
| 8 | 90 | 346 | 461 | 576 | 446 | 443 | 394 | 441 | 435 | 452 | 465 | 417 | 454 | 435 | 439 | 424 |
| 6 | 100 | 225 | 300 | 375 | 320 | 319 | 283 | 317 | 313 | 325 | 335 | 300 | 326 | 313 | 316 | 305 |
| 7 | 100 | 315 | 420 | 525 | 449 | 446 | 397 | 443 | 438 | 455 | 468 | 420 | 457 | 438 | 442 | 427 |
| 8 | 100 | 439 | 585 | 731 | 625 | 622 | 553 | 618 | 610 | 634 | 653 | 585 | 637 | 610 | 616 | 595 |
| 6 | 110 | 283 | 377 | 471 | 445 | 442 | 393 | 440 | 435 | 451 | 464 | 416 | 453 | 435 | 438 | 423 |
| 7 | 110 | 397 | 529 | 661 | 624 | 621 | 552 | 617 | 610 | 633 | 652 | 584 | 636 | 610 | 615 | 594 |
| 8 | 110 | 552 | 736 | 920 | 868 | 864 | 768 | 858 | 848 | 881 | 907 | 813 | 885 | 848 | 856 | 827 |
| 6 | 125 | 395 | 527 | 659 | 722 | 718 | 638 | 713 | 705 | 732 | 754 | 676 | 735 | 705 | 711 | 687 |
| 7 | 125 | 553 | 737 | 921 | 1009 | 1004 | 893 | 998 | 986 | 1024 | 1054 | 945 | 1029 | 986 | 995 | 961 |
| 8 | 125 | 770 | 1026 | 1283 | 1405 | 1398 | 1243 | 1389 | 1373 | 1425 | 1468 | 1316 | 1432 | 1373 | 1385 | 1338 |

¹ Production rates are based on a consensus of replies to a user survey.

Tight Rust or Millscale

Soft Coating

Medium Profile Range

SSPC-SP 10

Tables 2222

PC

| Operating Conditions | | Production Rate ft ² /hr of Blasting ¹ | | | | | | | | | | | | | | |
|----------------------|----------------|--|--------|------|-----------------------------|------|--------|------|--------------------------------|------------|--------|--------|--------------|---------|-------|-----|
| | | Typical Mineral Abrasive | | | Refinery & By-Product Grits | | | | Natural or Mined Grits & Sands | | | | Manufactured | | | |
| Nozzle Size | Pressure (psi) | -25% | Median | +25% | Copper | Coal | Nickel | Iron | Olivine | Staurolite | Garnet | Silica | Zircon | Alumina | Glass | |
| 6 | 90 | 89 | 118 | 148 | 114 | 114 | 101 | 113 | 111 | 116 | 119 | 107 | 116 | 111 | 112 | 109 |
| 7 | 90 | 124 | 165 | 206 | 160 | 159 | 141 | 158 | 156 | 162 | 167 | 149 | 163 | 156 | 157 | 152 |
| 8 | 90 | 173 | 230 | 288 | 222 | 221 | 197 | 220 | 217 | 226 | 232 | 208 | 227 | 217 | 219 | 212 |
| 6 | 100 | 113 | 150 | 188 | 160 | 159 | 142 | 158 | 157 | 163 | 167 | 150 | 163 | 157 | 158 | 153 |
| 7 | 100 | 158 | 210 | 263 | 224 | 223 | 198 | 222 | 219 | 228 | 234 | 210 | 229 | 219 | 221 | 214 |
| 8 | 100 | 220 | 293 | 366 | 313 | 311 | 277 | 309 | 306 | 317 | 327 | 293 | 319 | 306 | 308 | 298 |
| 6 | 110 | 142 | 189 | 236 | 223 | 222 | 197 | 220 | 218 | 226 | 233 | 209 | 227 | 218 | 220 | 212 |
| 7 | 110 | 199 | 265 | 331 | 313 | 311 | 276 | 309 | 305 | 317 | 327 | 293 | 319 | 305 | 308 | 298 |
| 8 | 110 | 276 | 368 | 460 | 434 | 432 | 384 | 429 | 424 | 440 | 453 | 407 | 442 | 424 | 428 | 413 |
| 6 | 125 | 197 | 263 | 329 | 360 | 358 | 319 | 356 | 352 | 365 | 376 | 337 | 367 | 352 | 355 | 343 |
| 7 | 125 | 276 | 368 | 460 | 504 | 501 | 446 | 498 | 492 | 511 | 526 | 472 | 514 | 492 | 497 | 480 |
| 8 | 125 | 385 | 513 | 641 | 703 | 699 | 621 | 694 | 686 | 713 | 734 | 658 | 716 | 686 | 693 | 669 |

¹ Production rates are based on a consensus of replies to a user survey.

Tight Rust or Millscale

Soft Coating

High Profile Range

SSPC-SP 10

Tables 2223

PC

| Operating Conditions | | Production Rate ft ² /hr of Blasting ¹ | | | | | | | | | | | | | | |
|----------------------|----------------|--|--------|------|-----------------------------|------|--------|------|--------------------------------|------------|--------|--------|--------------|---------|-------|------|
| | | Typical Mineral Abrasive | | | Refinery & By-Product Grits | | | | Natural or Mined Grits & Sands | | | | Manufactured | | | |
| Nozzle Size | Pressure (psi) | -25% | Median | +25% | Copper | Coal | Nickel | Iron | Olivine | Staurolite | Garnet | Silica | Zircon | Alumina | Glass | |
| 6 | 90 | 532 | 709 | 886 | 685 | 682 | 606 | 678 | 670 | 695 | 716 | 642 | 698 | 670 | 676 | 653 |
| 7 | 90 | 797 | 1063 | 1329 | 1028 | 1022 | 909 | 1016 | 1004 | 1043 | 1073 | 962 | 1047 | 1004 | 1013 | 978 |
| 8 | 90 | 1064 | 1418 | 1773 | 1371 | 1364 | 1212 | 1355 | 1340 | 1391 | 1432 | 1284 | 1397 | 1340 | 1351 | 1305 |
| 6 | 100 | 675 | 900 | 1125 | 961 | 956 | 850 | 950 | 939 | 975 | 1004 | 900 | 979 | 939 | 947 | 915 |
| 7 | 100 | 1013 | 1350 | 1688 | 1442 | 1434 | 1275 | 1425 | 1409 | 1463 | 1506 | 1350 | 1469 | 1409 | 1421 | 1373 |
| 8 | 100 | 1350 | 1800 | 2250 | 1922 | 1913 | 1700 | 1900 | 1878 | 1950 | 2008 | 1800 | 1959 | 1878 | 1895 | 1830 |
| 6 | 110 | 849 | 1132 | 1415 | 1335 | 1329 | 1181 | 1320 | 1305 | 1355 | 1395 | 1250 | 1361 | 1305 | 1316 | 1271 |
| 7 | 110 | 1274 | 1699 | 2124 | 2004 | 1994 | 1772 | 1981 | 1958 | 2033 | 2093 | 1877 | 2042 | 1958 | 1976 | 1908 |
| 8 | 110 | 1699 | 2265 | 2831 | 2672 | 2658 | 2363 | 2641 | 2611 | 2710 | 2791 | 2502 | 2723 | 2611 | 2634 | 2544 |
| 6 | 125 | 1183 | 1577 | 1971 | 2160 | 2149 | 1910 | 2135 | 2110 | 2191 | 2256 | 2022 | 2201 | 2110 | 2129 | 2056 |
| 7 | 125 | 1775 | 2367 | 2959 | 3242 | 3225 | 2867 | 3204 | 3167 | 3288 | 3386 | 3036 | 3303 | 3167 | 3195 | 3086 |
| 8 | 125 | 2367 | 3156 | 3945 | 4322 | 4300 | 3823 | 4272 | 4223 | 4385 | 4514 | 4047 | 4404 | 4223 | 4260 | 4115 |

¹ Production rates are based on a consensus of replies to a user survey.

Tight Rust or Millscale

Soft Coating

Low Profile Range

SSPC-SP 6

Tables 2231

PC

| Operating Conditions | | Production Rate ft ² /hr of Blasting ¹ | | | | | | | | | | | | | | |
|----------------------|----------------|--|--------|------|-----------------------------|------|--------|------|--------------------------------|------------|--------|--------|--------------|---------|-------|------|
| | | Typical Mineral Abrasive | | | Refinery & By-Product Grits | | | | Natural or Mined Grits & Sands | | | | Manufactured | | | |
| Nozzle Size | Pressure (psi) | -25% | Median | +25% | Copper | Coal | Nickel | Iron | Olivine | Staurolite | Garnet | Silica | Zircon | Alumina | Glass | |
| 6 | 90 | 355 | 473 | 591 | 457 | 455 | 404 | 452 | 447 | 464 | 478 | 428 | 466 | 447 | 451 | 435 |
| 7 | 90 | 532 | 709 | 886 | 685 | 682 | 606 | 678 | 670 | 695 | 716 | 642 | 698 | 670 | 676 | 653 |
| 8 | 90 | 709 | 945 | 1181 | 914 | 909 | 808 | 903 | 893 | 927 | 954 | 855 | 931 | 893 | 901 | 870 |
| 6 | 100 | 450 | 600 | 750 | 641 | 638 | 567 | 633 | 626 | 650 | 669 | 600 | 653 | 626 | 632 | 610 |
| 7 | 100 | 675 | 900 | 1125 | 961 | 956 | 850 | 950 | 939 | 975 | 1004 | 900 | 979 | 939 | 947 | 915 |
| 8 | 100 | 900 | 1200 | 1500 | 1282 | 1275 | 1133 | 1267 | 1252 | 1300 | 1338 | 1200 | 1306 | 1252 | 1263 | 1220 |
| 6 | 110 | 566 | 755 | 944 | 891 | 886 | 788 | 880 | 870 | 903 | 930 | 834 | 908 | 870 | 878 | 848 |
| 7 | 110 | 849 | 1132 | 1415 | 1335 | 1329 | 1181 | 1320 | 1305 | 1355 | 1395 | 1250 | 1361 | 1305 | 1316 | 1271 |
| 8 | 110 | 1133 | 1510 | 1888 | 1781 | 1772 | 1575 | 1761 | 1741 | 1807 | 1860 | 1668 | 1815 | 1741 | 1756 | 1696 |
| 6 | 125 | 788 | 1051 | 1314 | 1439 | 1432 | 1273 | 1423 | 1406 | 1460 | 1503 | 1348 | 1467 | 1406 | 1419 | 1370 |
| 7 | 125 | 1183 | 1578 | 1972 | 2161 | 2150 | 1911 | 2136 | 2112 | 2192 | 2257 | 2024 | 2202 | 2112 | 2130 | 2057 |
| 8 | 125 | 1578 | 2104 | 2630 | 2882 | 2867 | 2548 | 2848 | 2816 | 2923 | 3010 | 2698 | 2936 | 2816 | 2840 | 2743 |

¹ Production rates are based on a consensus of replies to a user survey.

Tight Rust or Millscale

Soft Coating

Medium Profile Range

SSPC-SP 6

Tables 2232

PC

| Operating Conditions | | Production Rate ft ² /hr of Blasting ¹ | | | | | | | | | | | | | | |
|----------------------|----------------|--|--------|------|-----------------------------|------|--------|------|--------------------------------|------------|--------|--------|--------------|---------|-------|------|
| | | Typical Mineral Abrasive | | | Refinery & By-Product Grits | | | | Natural or Mined Grits & Sands | | | | Manufactured | | | |
| Nozzle Size | Pressure (psi) | -25% | Median | +25% | Copper | Coal | Nickel | Iron | Olivine | Staurolite | Garnet | Silica | Zircon | Alumina | Glass | Iron |
| 6 | 90 | 177 | 236 | 295 | 228 | 227 | 202 | 226 | 223 | 231 | 238 | 214 | 232 | 223 | 225 | 217 |
| 7 | 90 | 266 | 354 | 443 | 342 | 341 | 303 | 338 | 334 | 347 | 357 | 320 | 349 | 334 | 337 | 326 |
| 8 | 90 | 355 | 473 | 591 | 457 | 455 | 404 | 452 | 447 | 464 | 478 | 428 | 466 | 447 | 451 | 435 |
| 6 | 100 | 225 | 300 | 375 | 320 | 319 | 283 | 317 | 313 | 325 | 335 | 300 | 326 | 313 | 316 | 305 |
| 7 | 100 | 338 | 450 | 563 | 481 | 478 | 425 | 475 | 470 | 488 | 502 | 450 | 490 | 470 | 474 | 458 |
| 8 | 100 | 450 | 600 | 750 | 641 | 638 | 567 | 633 | 626 | 650 | 669 | 600 | 653 | 626 | 632 | 610 |
| 6 | 110 | 283 | 377 | 471 | 445 | 442 | 393 | 440 | 435 | 451 | 464 | 416 | 453 | 435 | 438 | 423 |
| 7 | 110 | 424 | 566 | 707 | 668 | 664 | 590 | 660 | 652 | 677 | 697 | 625 | 680 | 652 | 658 | 636 |
| 8 | 110 | 566 | 755 | 944 | 891 | 886 | 788 | 880 | 870 | 903 | 930 | 834 | 908 | 870 | 878 | 848 |
| 6 | 125 | 395 | 526 | 658 | 720 | 717 | 637 | 712 | 704 | 731 | 752 | 675 | 734 | 704 | 710 | 686 |
| 7 | 125 | 592 | 789 | 986 | 1081 | 1075 | 956 | 1068 | 1056 | 1096 | 1129 | 1012 | 1101 | 1056 | 1065 | 1029 |
| 8 | 125 | 789 | 1052 | 1315 | 1441 | 1433 | 1274 | 1424 | 1408 | 1462 | 1505 | 1349 | 1468 | 1408 | 1420 | 1372 |

¹ Production rates are based on a consensus of replies to a user survey.

Tight Rust or Millscale

Soft Coating

High Profile Range

SSPC-SP 6

Tables 2233

PC

| Operating Conditions | | Production Rate ft ² /hr of Blasting ¹ | | | | | | | | | | | | | | |
|----------------------|----------------|--|--------|------|-----------------------------|------|--------|------|--------------------------------|------------|--------|--------|--------------|---------|-------|------|
| | | Typical Mineral Abrasive | | | Refinery & By-Product Grits | | | | Natural or Mined Grits & Sands | | | | Manufactured | | | |
| Nozzle Size | Pressure (psi) | -25% | Median | +25% | Copper | Coal | Nickel | Iron | Olivine | Staurolite | Garnet | Silica | Zircon | Alumina | Glass | |
| 6 | 90 | 591 | 788 | 985 | 762 | 758 | 674 | 753 | 744 | 773 | 796 | 713 | 776 | 744 | 751 | 725 |
| 7 | 90 | 886 | 1181 | 1476 | 1142 | 1136 | 1010 | 1129 | 1116 | 1158 | 1193 | 1069 | 1163 | 1116 | 1125 | 1087 |
| 8 | 90 | 1181 | 1574 | 1968 | 1522 | 1514 | 1346 | 1504 | 1487 | 1544 | 1589 | 1425 | 1551 | 1487 | 1500 | 1449 |
| 6 | 100 | 750 | 1000 | 1250 | 1068 | 1063 | 944 | 1056 | 1043 | 1083 | 1115 | 1000 | 1088 | 1043 | 1053 | 1017 |
| 7 | 100 | 1125 | 1500 | 1875 | 1602 | 1594 | 1417 | 1583 | 1565 | 1625 | 1673 | 1500 | 1632 | 1565 | 1579 | 1525 |
| 8 | 100 | 1500 | 2000 | 2500 | 2136 | 2125 | 1889 | 2111 | 2087 | 2167 | 2231 | 2000 | 2176 | 2087 | 2105 | 2033 |
| 6 | 110 | 944 | 1258 | 1573 | 1484 | 1476 | 1312 | 1467 | 1450 | 1505 | 1550 | 1390 | 1512 | 1450 | 1463 | 1413 |
| 7 | 110 | 1416 | 1888 | 2360 | 2227 | 2216 | 1970 | 2201 | 2176 | 2259 | 2326 | 2086 | 2270 | 2176 | 2195 | 2120 |
| 8 | 110 | 1889 | 2518 | 3148 | 2970 | 2955 | 2627 | 2936 | 2902 | 3013 | 3102 | 2781 | 3027 | 2902 | 2928 | 2828 |
| 6 | 125 | 1315 | 1753 | 2191 | 2401 | 2389 | 2123 | 2373 | 2346 | 2435 | 2507 | 2248 | 2446 | 2346 | 2366 | 2286 |
| 7 | 125 | 1972 | 2629 | 3286 | 3601 | 3582 | 3184 | 3559 | 3518 | 3652 | 3761 | 3372 | 3669 | 3518 | 3549 | 3428 |
| 8 | 125 | 2630 | 3507 | 4384 | 4803 | 4779 | 4248 | 4747 | 4693 | 4872 | 5016 | 4497 | 4894 | 4693 | 4734 | 4572 |

¹ Production rates are based on a consensus of replies to a user survey.

Tight Rust or Millscale

Soft Coating

Low Profile Range

SSPC-SP 7

Tables 2241

PC

| Operating Conditions | | Production Rate ft ² /hr of Blasting ¹ | | | | | | | | | | | | | | |
|----------------------|----------------|--|--------|------|-----------------------------|------|--------|------|--------------------------------|------------|--------|--------|--------------|---------|-------|------|
| | | Typical Mineral Abrasive | | | Refinery & By-Product Grits | | | | Natural or Mined Grits & Sands | | | | Manufactured | | | |
| Nozzle Size | Pressure (psi) | -25% | Median | +25% | Copper | Coal | Nickel | Iron | Olivine | Staurolite | Garnet | Silica | Zircon | Alumina | Glass | |
| 6 | 90 | 160 | 213 | 266 | 206 | 205 | 182 | 204 | 201 | 209 | 215 | 193 | 210 | 201 | 203 | 196 |
| 7 | 90 | 230 | 307 | 384 | 297 | 295 | 262 | 293 | 290 | 301 | 310 | 278 | 302 | 290 | 293 | 283 |
| 8 | 90 | 320 | 426 | 533 | 412 | 410 | 364 | 407 | 402 | 418 | 430 | 386 | 420 | 402 | 406 | 392 |
| 6 | 100 | 203 | 270 | 338 | 288 | 287 | 255 | 285 | 282 | 293 | 301 | 270 | 294 | 282 | 284 | 275 |
| 7 | 100 | 293 | 390 | 488 | 417 | 414 | 368 | 412 | 407 | 423 | 435 | 390 | 424 | 407 | 411 | 396 |
| 8 | 100 | 405 | 540 | 675 | 577 | 574 | 510 | 570 | 563 | 585 | 602 | 540 | 588 | 563 | 568 | 549 |
| 6 | 110 | 255 | 340 | 425 | 401 | 399 | 355 | 396 | 392 | 407 | 419 | 376 | 409 | 392 | 395 | 382 |
| 7 | 110 | 368 | 491 | 614 | 579 | 576 | 512 | 573 | 566 | 588 | 605 | 542 | 590 | 566 | 571 | 551 |
| 8 | 110 | 509 | 679 | 849 | 801 | 797 | 708 | 792 | 783 | 813 | 837 | 750 | 816 | 783 | 790 | 763 |
| 6 | 125 | 356 | 474 | 593 | 649 | 646 | 574 | 642 | 634 | 659 | 678 | 608 | 662 | 634 | 640 | 618 |
| 7 | 125 | 513 | 684 | 855 | 937 | 932 | 828 | 926 | 915 | 950 | 978 | 877 | 955 | 915 | 923 | 892 |
| 8 | 125 | 710 | 947 | 1184 | 1297 | 1290 | 1147 | 1282 | 1267 | 1316 | 1355 | 1214 | 1322 | 1267 | 1278 | 1235 |

¹ Production rates are based on a consensus of replies to a user survey.

Tight Rust or Millscale

New Steel

Low Profile Range

SSPC-SP 5

Tables 2311

PC

| Operating Conditions | | Production Rate ft ² /hr of Blasting ¹ | | | | | | | | | | | | | | |
|----------------------|----------------|--|--------|------|-----------------------------|------|--------|------|--------------------------------|------------|--------|--------|--------------|---------|-------|------|
| | | Typical Mineral Abrasive | | | Refinery & By-Product Grits | | | | Natural or Mined Grits & Sands | | | | Manufactured | | | |
| Nozzle Size | Pressure (psi) | -25% | Median | +25% | Copper | Coal | Nickel | Iron | Olivine | Staurolite | Garnet | Silica | Zircon | Alumina | Glass | |
| 6 | 90 | 160 | 213 | 266 | 206 | 205 | 182 | 204 | 201 | 209 | 215 | 193 | 210 | 201 | 203 | 196 |
| 7 | 90 | 230 | 307 | 384 | 297 | 295 | 262 | 293 | 290 | 301 | 310 | 278 | 302 | 290 | 293 | 283 |
| 8 | 90 | 320 | 426 | 533 | 412 | 410 | 364 | 407 | 402 | 418 | 430 | 386 | 420 | 402 | 406 | 392 |
| 6 | 100 | 203 | 270 | 338 | 288 | 287 | 255 | 285 | 282 | 293 | 301 | 270 | 294 | 282 | 284 | 275 |
| 7 | 100 | 293 | 390 | 488 | 417 | 414 | 368 | 412 | 407 | 423 | 435 | 390 | 424 | 407 | 411 | 396 |
| 8 | 100 | 405 | 540 | 675 | 577 | 574 | 510 | 570 | 563 | 585 | 602 | 540 | 588 | 563 | 568 | 549 |
| 6 | 110 | 255 | 340 | 425 | 401 | 399 | 355 | 396 | 392 | 407 | 419 | 376 | 409 | 392 | 395 | 382 |
| 7 | 110 | 368 | 491 | 614 | 579 | 576 | 512 | 573 | 566 | 588 | 605 | 542 | 590 | 566 | 571 | 551 |
| 8 | 110 | 509 | 679 | 849 | 801 | 797 | 708 | 792 | 783 | 813 | 837 | 750 | 816 | 783 | 790 | 763 |
| 6 | 125 | 356 | 474 | 593 | 649 | 646 | 574 | 642 | 634 | 659 | 678 | 608 | 662 | 634 | 640 | 618 |
| 7 | 125 | 513 | 684 | 855 | 937 | 932 | 828 | 926 | 915 | 950 | 978 | 877 | 955 | 915 | 923 | 892 |
| 8 | 125 | 710 | 947 | 1184 | 1297 | 1290 | 1147 | 1282 | 1267 | 1316 | 1355 | 1214 | 1322 | 1267 | 1278 | 1235 |

¹ Production rates are based on a consensus of replies to a user survey.

Tight Rust or Millscale

New Steel

Low Profile Range

SSPC-SP 5

Tables 2311

PC

| Operating Conditions | | Production Rate ft ² /hr of Blasting ¹ | | | | | | | | | | | | | | |
|----------------------|----------------|--|--------|------|-----------------------------|------|--------|------|--------------------------------|------------|--------|--------|--------------|---------|-------|------|
| | | Typical Mineral Abrasive | | | Refinery & By-Product Grits | | | | Natural or Mined Grits & Sands | | | | Manufactured | | | |
| Nozzle Size | Pressure (psi) | -25% | Median | +25% | Copper | Coal | Nickel | Iron | Olivine | Staurolite | Garnet | Silica | Zircon | Alumina | Glass | Iron |
| 6 | 90 | 107 | 142 | 178 | 137 | 137 | 121 | 136 | 134 | 139 | 143 | 129 | 140 | 134 | 135 | 131 |
| 7 | 90 | 153 | 204 | 255 | 197 | 196 | 174 | 195 | 193 | 200 | 206 | 185 | 201 | 193 | 194 | 188 |
| 8 | 90 | 213 | 284 | 355 | 275 | 273 | 243 | 271 | 268 | 279 | 287 | 257 | 280 | 268 | 271 | 261 |
| 6 | 100 | 135 | 180 | 225 | 192 | 191 | 170 | 190 | 188 | 195 | 201 | 180 | 196 | 188 | 189 | 183 |
| 7 | 100 | 195 | 260 | 325 | 278 | 276 | 246 | 274 | 271 | 282 | 290 | 260 | 283 | 271 | 274 | 264 |
| 8 | 100 | 270 | 360 | 450 | 384 | 383 | 340 | 380 | 376 | 390 | 402 | 360 | 392 | 376 | 379 | 366 |
| 6 | 110 | 170 | 226 | 283 | 267 | 265 | 236 | 264 | 260 | 270 | 278 | 250 | 272 | 260 | 263 | 254 |
| 7 | 110 | 246 | 328 | 410 | 387 | 385 | 342 | 382 | 378 | 393 | 404 | 362 | 394 | 378 | 381 | 368 |
| 8 | 110 | 340 | 453 | 566 | 534 | 532 | 473 | 528 | 522 | 542 | 558 | 500 | 545 | 522 | 527 | 509 |
| 6 | 125 | 237 | 316 | 395 | 433 | 431 | 383 | 428 | 423 | 439 | 452 | 405 | 441 | 423 | 427 | 412 |
| 7 | 125 | 342 | 456 | 570 | 625 | 621 | 552 | 617 | 610 | 634 | 652 | 585 | 636 | 610 | 616 | 595 |
| 8 | 125 | 473 | 631 | 789 | 864 | 860 | 764 | 854 | 844 | 877 | 903 | 809 | 881 | 844 | 852 | 823 |

¹ Production rates are based on a consensus of replies to a user survey.

Tight Rust or Millscale

New Steel

Medium Profile Range

SSPC-SP 5

Tables 2312

PC

| Operating Conditions | | Production Rate ft ² /hr of Blasting ¹ | | | | | | | | | | | | | | |
|----------------------|----------------|--|--------|------|-----------------------------|------|--------|------|--------------------------------|------------|--------|--------|--------------|---------|-------|------|
| | | Typical Mineral Abrasive | | | Refinery & By-Product Grits | | | | Natural or Mined Grits & Sands | | | | Manufactured | | | |
| Nozzle Size | Pressure (psi) | -25% | Median | +25% | Copper | Coal | Nickel | Iron | Olivine | Staurolite | Garnet | Silica | Zircon | Alumina | Glass | Iron |
| 6 | 90 | 107 | 142 | 178 | 137 | 137 | 121 | 136 | 134 | 139 | 143 | 129 | 140 | 134 | 135 | 131 |
| 7 | 90 | 153 | 204 | 255 | 197 | 196 | 174 | 195 | 193 | 200 | 206 | 185 | 201 | 193 | 194 | 188 |
| 8 | 90 | 213 | 284 | 355 | 275 | 273 | 243 | 271 | 268 | 279 | 287 | 257 | 280 | 268 | 271 | 261 |
| 6 | 100 | 135 | 180 | 225 | 192 | 191 | 170 | 190 | 188 | 195 | 201 | 180 | 196 | 188 | 189 | 183 |
| 7 | 100 | 195 | 260 | 325 | 278 | 276 | 246 | 274 | 271 | 282 | 290 | 260 | 283 | 271 | 274 | 264 |
| 8 | 100 | 270 | 360 | 450 | 384 | 383 | 340 | 380 | 376 | 390 | 402 | 360 | 392 | 376 | 379 | 366 |
| 6 | 110 | 170 | 226 | 283 | 267 | 265 | 236 | 264 | 260 | 270 | 278 | 250 | 272 | 260 | 263 | 254 |
| 7 | 110 | 246 | 328 | 410 | 387 | 385 | 342 | 382 | 378 | 393 | 404 | 362 | 394 | 378 | 381 | 368 |
| 8 | 110 | 340 | 453 | 566 | 534 | 532 | 473 | 528 | 522 | 542 | 558 | 500 | 545 | 522 | 527 | 509 |
| 6 | 125 | 237 | 316 | 395 | 433 | 431 | 383 | 428 | 423 | 439 | 452 | 405 | 441 | 423 | 427 | 412 |
| 7 | 125 | 342 | 456 | 570 | 625 | 621 | 552 | 617 | 610 | 634 | 652 | 585 | 636 | 610 | 616 | 595 |
| 8 | 125 | 473 | 631 | 789 | 864 | 860 | 764 | 854 | 844 | 877 | 903 | 809 | 881 | 844 | 852 | 823 |

¹ Production rates are based on a consensus of replies to a user survey.

Tight Rust or Millscale

New Steel

Medium Profile Range

SSPC-SP 5

Tables 2312

PC

| Operating Conditions | | Production Rate ft ² /hr of Blasting ¹ | | | | | | | | | | | | | | |
|----------------------|----------------|--|--------|------|-----------------------------|------|--------|------|--------------------------------|------------|--------|--------|--------------|---------|-------|-----|
| | | Typical Mineral Abrasive | | | Refinery & By-Product Grits | | | | Natural or Mined Grits & Sands | | | | Manufactured | | | |
| Nozzle Size | Pressure (psi) | -25% | Median | +25% | Copper | Coal | Nickel | Iron | Olivine | Staurolite | Garnet | Silica | Zircon | Alumina | Glass | |
| 6 | 90 | 53 | 71 | 89 | 69 | 68 | 61 | 68 | 67 | 70 | 72 | 64 | 70 | 67 | 68 | 65 |
| 7 | 90 | 77 | 102 | 128 | 99 | 98 | 87 | 97 | 96 | 100 | 103 | 92 | 100 | 96 | 97 | 94 |
| 8 | 90 | 107 | 142 | 178 | 137 | 137 | 121 | 136 | 134 | 139 | 143 | 129 | 140 | 134 | 135 | 131 |
| 6 | 100 | 68 | 90 | 113 | 96 | 96 | 85 | 95 | 94 | 98 | 100 | 90 | 98 | 94 | 95 | 92 |
| 7 | 100 | 98 | 130 | 163 | 139 | 138 | 123 | 137 | 136 | 141 | 145 | 130 | 141 | 136 | 137 | 132 |
| 8 | 100 | 135 | 180 | 225 | 192 | 191 | 170 | 190 | 188 | 195 | 201 | 180 | 196 | 188 | 189 | 183 |
| 6 | 110 | 85 | 113 | 141 | 133 | 133 | 118 | 132 | 130 | 135 | 139 | 125 | 136 | 130 | 131 | 127 |
| 7 | 110 | 123 | 164 | 205 | 193 | 192 | 171 | 191 | 189 | 196 | 202 | 181 | 197 | 189 | 191 | 184 |
| 8 | 110 | 170 | 226 | 283 | 267 | 265 | 236 | 264 | 260 | 270 | 278 | 250 | 272 | 260 | 263 | 254 |
| 6 | 125 | 119 | 158 | 198 | 216 | 215 | 191 | 214 | 211 | 220 | 226 | 203 | 221 | 211 | 213 | 206 |
| 7 | 125 | 171 | 228 | 285 | 312 | 311 | 276 | 309 | 305 | 317 | 326 | 292 | 318 | 305 | 308 | 297 |
| 8 | 125 | 237 | 316 | 395 | 433 | 431 | 383 | 428 | 423 | 439 | 452 | 405 | 441 | 423 | 427 | 412 |

¹ Production rates are based on a consensus of replies to a user survey.

Tight Rust or Millscale

New Steel

High Profile Range

SSPC-SP 5

Tables 2313 PC

| Operating Conditions | | Production Rate ft ² /hr of Blasting ¹ | | | | | | | | | | | | | | |
|----------------------|----------------|--|--------|------|-----------------------------|------|--------|------|--------------------------------|------------|--------|--------|--------------|---------|-------|-----|
| | | Typical Mineral Abrasive | | | Refinery & By-Product Grits | | | | Natural or Mined Grits & Sands | | | | Manufactured | | | |
| Nozzle Size | Pressure (psi) | -25% | Median | +25% | Copper | Coal | Nickel | Iron | Olivine | Staurolite | Garnet | Silica | Zircon | Alumina | Glass | |
| 6 | 90 | 53 | 71 | 89 | 69 | 68 | 61 | 68 | 67 | 70 | 72 | 64 | 70 | 67 | 68 | 65 |
| 7 | 90 | 77 | 102 | 128 | 99 | 98 | 87 | 97 | 96 | 100 | 103 | 92 | 100 | 96 | 97 | 94 |
| 8 | 90 | 107 | 142 | 178 | 137 | 137 | 121 | 136 | 134 | 139 | 143 | 129 | 140 | 134 | 135 | 131 |
| 6 | 100 | 68 | 90 | 113 | 96 | 96 | 85 | 95 | 94 | 98 | 100 | 90 | 98 | 94 | 95 | 92 |
| 7 | 100 | 98 | 130 | 163 | 139 | 138 | 123 | 137 | 136 | 141 | 145 | 130 | 141 | 136 | 137 | 132 |
| 8 | 100 | 135 | 180 | 225 | 192 | 191 | 170 | 190 | 188 | 195 | 201 | 180 | 196 | 188 | 189 | 183 |
| 6 | 110 | 85 | 113 | 141 | 133 | 133 | 118 | 132 | 130 | 135 | 139 | 125 | 136 | 130 | 131 | 127 |
| 7 | 110 | 123 | 164 | 205 | 193 | 192 | 171 | 191 | 189 | 196 | 202 | 181 | 197 | 189 | 191 | 184 |
| 8 | 110 | 170 | 226 | 283 | 267 | 265 | 236 | 264 | 260 | 270 | 278 | 250 | 272 | 260 | 263 | 254 |
| 6 | 125 | 119 | 158 | 198 | 216 | 215 | 191 | 214 | 211 | 220 | 226 | 203 | 221 | 211 | 213 | 206 |
| 7 | 125 | 171 | 228 | 285 | 312 | 311 | 276 | 309 | 305 | 317 | 326 | 292 | 318 | 305 | 308 | 297 |
| 8 | 125 | 237 | 316 | 395 | 433 | 431 | 383 | 428 | 423 | 439 | 452 | 405 | 441 | 423 | 427 | 412 |

¹ Production rates are based on a consensus of replies to a user survey.

Tight Rust or Millscale

New Steel

High Profile Range

SSPC-SP 5

Tables 2313 PC

| Operating Conditions | | Production Rate ft ² /hr of Blasting ¹ | | | | | | | | | | | | | | |
|----------------------|----------------|--|--------|------|-----------------------------|------|--------|------|--------------------------------|------------|--------|--------|--------------|---------|-------|------------|
| | | Typical Mineral Abrasive | | | Refinery & By-Product Grits | | | | Natural or Mined Grits & Sands | | | | Manufactured | | | Steel Iron |
| Nozzle Size | Pressure (psi) | -25% | Median | +25% | Copper | Coal | Nickel | Iron | Olivine | Staurolite | Garnet | Silica | Zircon | Alumina | Glass | |
| 6 | 90 | 177 | 236 | 295 | 228 | 227 | 202 | 226 | 223 | 231 | 238 | 214 | 232 | 223 | 225 | 217 |
| 7 | 90 | 248 | 330 | 413 | 319 | 317 | 282 | 315 | 312 | 324 | 333 | 299 | 325 | 312 | 314 | 304 |
| 8 | 90 | 346 | 461 | 576 | 446 | 443 | 394 | 441 | 435 | 452 | 465 | 417 | 454 | 435 | 439 | 424 |
| 6 | 100 | 225 | 300 | 375 | 320 | 319 | 283 | 317 | 313 | 325 | 335 | 300 | 326 | 313 | 316 | 305 |
| 7 | 100 | 315 | 420 | 525 | 449 | 446 | 397 | 443 | 438 | 455 | 468 | 420 | 457 | 438 | 442 | 427 |
| 8 | 100 | 439 | 585 | 731 | 625 | 622 | 553 | 618 | 610 | 634 | 653 | 585 | 637 | 610 | 616 | 595 |
| 6 | 110 | 283 | 377 | 471 | 445 | 442 | 393 | 440 | 435 | 451 | 464 | 416 | 453 | 435 | 438 | 423 |
| 7 | 110 | 397 | 529 | 661 | 624 | 621 | 552 | 617 | 610 | 633 | 652 | 584 | 636 | 610 | 615 | 594 |
| 8 | 110 | 552 | 736 | 920 | 868 | 864 | 768 | 858 | 848 | 881 | 907 | 813 | 885 | 848 | 856 | 827 |
| 6 | 125 | 395 | 527 | 659 | 722 | 718 | 638 | 713 | 705 | 732 | 754 | 676 | 735 | 705 | 711 | 687 |
| 7 | 125 | 553 | 737 | 921 | 1009 | 1004 | 893 | 998 | 986 | 1024 | 1054 | 945 | 1029 | 986 | 995 | 961 |
| 8 | 125 | 770 | 1026 | 1283 | 1405 | 1398 | 1243 | 1389 | 1373 | 1425 | 1468 | 1316 | 1432 | 1373 | 1385 | 1338 |

¹ Production rates are based on a consensus of replies to a user survey.

Tight Rust or Millscale

New Steel

Low Profile Range

SSPC-SP 10

Tables 2321

PC

| Operating Conditions | | Production Rate ft ² /hr of Blasting ¹ | | | | | | | | | | | | | | |
|----------------------|----------------|--|--------|------|-----------------------------|------|--------|------|--------------------------------|------------|--------|--------|--------------|---------|-------|------------|
| | | Typical Mineral Abrasive | | | Refinery & By-Product Grits | | | | Natural or Mined Grits & Sands | | | | Manufactured | | | Steel Iron |
| Nozzle Size | Pressure (psi) | -25% | Median | +25% | Copper | Coal | Nickel | Iron | Olivine | Staurolite | Garnet | Silica | Zircon | Alumina | Glass | |
| 6 | 90 | 177 | 236 | 295 | 228 | 227 | 202 | 226 | 223 | 231 | 238 | 214 | 232 | 223 | 225 | 217 |
| 7 | 90 | 248 | 330 | 413 | 319 | 317 | 282 | 315 | 312 | 324 | 333 | 299 | 325 | 312 | 314 | 304 |
| 8 | 90 | 346 | 461 | 576 | 446 | 443 | 394 | 441 | 435 | 452 | 465 | 417 | 454 | 435 | 439 | 424 |
| 6 | 100 | 225 | 300 | 375 | 320 | 319 | 283 | 317 | 313 | 325 | 335 | 300 | 326 | 313 | 316 | 305 |
| 7 | 100 | 315 | 420 | 525 | 449 | 446 | 397 | 443 | 438 | 455 | 468 | 420 | 457 | 438 | 442 | 427 |
| 8 | 100 | 439 | 585 | 731 | 625 | 622 | 553 | 618 | 610 | 634 | 653 | 585 | 637 | 610 | 616 | 595 |
| 6 | 110 | 283 | 377 | 471 | 445 | 442 | 393 | 440 | 435 | 451 | 464 | 416 | 453 | 435 | 438 | 423 |
| 7 | 110 | 397 | 529 | 661 | 624 | 621 | 552 | 617 | 610 | 633 | 652 | 584 | 636 | 610 | 615 | 594 |
| 8 | 110 | 552 | 736 | 920 | 868 | 864 | 768 | 858 | 848 | 881 | 907 | 813 | 885 | 848 | 856 | 827 |
| 6 | 125 | 395 | 527 | 659 | 722 | 718 | 638 | 713 | 705 | 732 | 754 | 676 | 735 | 705 | 711 | 687 |
| 7 | 125 | 553 | 737 | 921 | 1009 | 1004 | 893 | 998 | 986 | 1024 | 1054 | 945 | 1029 | 986 | 995 | 961 |
| 8 | 125 | 770 | 1026 | 1283 | 1405 | 1398 | 1243 | 1389 | 1373 | 1425 | 1468 | 1316 | 1432 | 1373 | 1385 | 1338 |

¹ Production rates are based on a consensus of replies to a user survey.

Tight Rust or Millscale

New Steel

Low Profile Range

SSPC-SP 10

Tables 2321

PC

| Operating Conditions | | Production Rate ft ² /hr of Blasting ¹ | | | | | | | | | | | | | | |
|----------------------|----------------|--|--------|------|-----------------------------|------|--------|------|--------------------------------|------------|--------|--------|--------------|---------|-------|------|
| | | Typical Mineral Abrasive | | | Refinery & By-Product Grits | | | | Natural or Mined Grits & Sands | | | | Manufactured | | | |
| Nozzle Size | Pressure (psi) | -25% | Median | +25% | Copper | Coal | Nickel | Iron | Olivine | Staurolite | Garnet | Silica | Zircon | Alumina | Glass | Iron |
| 6 | 90 | 119 | 158 | 198 | 153 | 152 | 135 | 151 | 149 | 155 | 160 | 143 | 156 | 149 | 151 | 145 |
| 7 | 90 | 165 | 220 | 275 | 213 | 212 | 188 | 210 | 208 | 216 | 222 | 199 | 217 | 208 | 210 | 202 |
| 8 | 90 | 230 | 307 | 384 | 297 | 295 | 262 | 293 | 290 | 301 | 310 | 278 | 302 | 290 | 293 | 283 |
| 6 | 100 | 150 | 200 | 250 | 214 | 213 | 189 | 211 | 209 | 217 | 223 | 200 | 218 | 209 | 211 | 203 |
| 7 | 100 | 210 | 280 | 350 | 299 | 298 | 264 | 296 | 292 | 303 | 312 | 280 | 305 | 292 | 295 | 285 |
| 8 | 100 | 293 | 390 | 488 | 417 | 414 | 368 | 412 | 407 | 423 | 435 | 390 | 424 | 407 | 411 | 396 |
| 6 | 110 | 189 | 252 | 315 | 297 | 296 | 263 | 294 | 290 | 302 | 310 | 278 | 303 | 290 | 293 | 283 |
| 7 | 110 | 265 | 353 | 441 | 416 | 414 | 368 | 412 | 407 | 422 | 435 | 390 | 424 | 407 | 410 | 396 |
| 8 | 110 | 368 | 491 | 614 | 579 | 576 | 512 | 573 | 566 | 588 | 605 | 542 | 590 | 566 | 571 | 551 |
| 6 | 125 | 263 | 351 | 439 | 481 | 478 | 425 | 475 | 470 | 488 | 502 | 450 | 490 | 470 | 474 | 458 |
| 7 | 125 | 368 | 491 | 614 | 672 | 669 | 595 | 665 | 657 | 682 | 702 | 630 | 685 | 657 | 663 | 640 |
| 8 | 125 | 513 | 684 | 855 | 937 | 932 | 828 | 926 | 915 | 950 | 978 | 877 | 955 | 915 | 923 | 892 |

¹ Production rates are based on a consensus of replies to a user survey.

Tight Rust or Millscale

New Steel

Medium Profile Range

SSPC-SP 10

Tables 2322

PC

| Operating Conditions | | Production Rate ft ² /hr of Blasting ¹ | | | | | | | | | | | | | | |
|----------------------|----------------|--|--------|------|-----------------------------|------|--------|------|--------------------------------|------------|--------|--------|--------------|---------|-------|------|
| | | Typical Mineral Abrasive | | | Refinery & By-Product Grits | | | | Natural or Mined Grits & Sands | | | | Manufactured | | | |
| Nozzle Size | Pressure (psi) | -25% | Median | +25% | Copper | Coal | Nickel | Iron | Olivine | Staurolite | Garnet | Silica | Zircon | Alumina | Glass | Iron |
| 6 | 90 | 119 | 158 | 198 | 153 | 152 | 135 | 151 | 149 | 155 | 160 | 143 | 156 | 149 | 151 | 145 |
| 7 | 90 | 165 | 220 | 275 | 213 | 212 | 188 | 210 | 208 | 216 | 222 | 199 | 217 | 208 | 210 | 202 |
| 8 | 90 | 230 | 307 | 384 | 297 | 295 | 262 | 293 | 290 | 301 | 310 | 278 | 302 | 290 | 293 | 283 |
| 6 | 100 | 150 | 200 | 250 | 214 | 213 | 189 | 211 | 209 | 217 | 223 | 200 | 218 | 209 | 211 | 203 |
| 7 | 100 | 210 | 280 | 350 | 299 | 298 | 264 | 296 | 292 | 303 | 312 | 280 | 305 | 292 | 295 | 285 |
| 8 | 100 | 293 | 390 | 488 | 417 | 414 | 368 | 412 | 407 | 423 | 435 | 390 | 424 | 407 | 411 | 396 |
| 6 | 110 | 189 | 252 | 315 | 297 | 296 | 263 | 294 | 290 | 302 | 310 | 278 | 303 | 290 | 293 | 283 |
| 7 | 110 | 265 | 353 | 441 | 416 | 414 | 368 | 412 | 407 | 422 | 435 | 390 | 424 | 407 | 410 | 396 |
| 8 | 110 | 368 | 491 | 614 | 579 | 576 | 512 | 573 | 566 | 588 | 605 | 542 | 590 | 566 | 571 | 551 |
| 6 | 125 | 263 | 351 | 439 | 481 | 478 | 425 | 475 | 470 | 488 | 502 | 450 | 490 | 470 | 474 | 458 |
| 7 | 125 | 368 | 491 | 614 | 672 | 669 | 595 | 665 | 657 | 682 | 702 | 630 | 685 | 657 | 663 | 640 |
| 8 | 125 | 513 | 684 | 855 | 937 | 932 | 828 | 926 | 915 | 950 | 978 | 877 | 955 | 915 | 923 | 892 |

¹ Production rates are based on a consensus of replies to a user survey.

Tight Rust or Millscale

New Steel

Medium Profile Range

SSPC-SP 10

Tables 2322

PC

| Operating Conditions | | Production Rate ft ² /hr of Blasting ¹ | | | | | | | | | | | | | | |
|----------------------|----------------|--|--------|------|-----------------------------|------|--------|------|--------------------------------|------------|--------|--------|--------------|---------|-------|-----|
| | | Typical Mineral Abrasive | | | Refinery & By-Product Grits | | | | Natural or Mined Grits & Sands | | | | Manufactured | | | |
| Nozzle Size | Pressure (psi) | -25% | Median | +25% | Copper | Coal | Nickel | Iron | Olivine | Staurolite | Garnet | Silica | Zircon | Alumina | Glass | |
| 6 | 90 | 59 | 79 | 99 | 76 | 76 | 68 | 75 | 75 | 77 | 80 | 72 | 78 | 75 | 75 | 73 |
| 7 | 90 | 83 | 110 | 138 | 106 | 106 | 94 | 105 | 104 | 108 | 111 | 100 | 108 | 104 | 105 | 101 |
| 8 | 90 | 115 | 154 | 192 | 149 | 148 | 132 | 147 | 145 | 151 | 156 | 139 | 152 | 145 | 147 | 142 |
| 6 | 100 | 75 | 100 | 125 | 107 | 106 | 94 | 106 | 104 | 108 | 112 | 100 | 109 | 104 | 105 | 102 |
| 7 | 100 | 105 | 140 | 175 | 150 | 149 | 132 | 148 | 146 | 152 | 156 | 140 | 152 | 146 | 147 | 142 |
| 8 | 100 | 146 | 195 | 244 | 208 | 207 | 184 | 206 | 203 | 211 | 217 | 195 | 212 | 203 | 205 | 198 |
| 6 | 110 | 95 | 126 | 158 | 149 | 148 | 131 | 147 | 145 | 151 | 155 | 139 | 151 | 145 | 147 | 142 |
| 7 | 110 | 132 | 176 | 220 | 208 | 207 | 184 | 205 | 203 | 211 | 217 | 194 | 212 | 203 | 205 | 198 |
| 8 | 110 | 184 | 245 | 306 | 289 | 288 | 256 | 286 | 282 | 293 | 302 | 271 | 295 | 282 | 285 | 275 |
| 6 | 125 | 132 | 176 | 220 | 241 | 240 | 213 | 238 | 236 | 245 | 252 | 226 | 246 | 236 | 238 | 229 |
| 7 | 125 | 185 | 246 | 308 | 337 | 335 | 298 | 333 | 329 | 342 | 352 | 315 | 343 | 329 | 332 | 321 |
| 8 | 125 | 257 | 342 | 428 | 468 | 466 | 414 | 463 | 458 | 475 | 489 | 439 | 477 | 458 | 462 | 446 |

¹ Production rates are based on a consensus of replies to a user survey.

Tight Rust or Millscale

New Steel

High Profile Range

SSPC-SP 10

Tables 2323

PC

| Operating Conditions | | Production Rate ft ² /hr of Blasting ¹ | | | | | | | | | | | | | | |
|----------------------|----------------|--|--------|------|-----------------------------|------|--------|------|--------------------------------|------------|--------|--------|--------------|---------|-------|-----|
| | | Typical Mineral Abrasive | | | Refinery & By-Product Grits | | | | Natural or Mined Grits & Sands | | | | Manufactured | | | |
| Nozzle Size | Pressure (psi) | -25% | Median | +25% | Copper | Coal | Nickel | Iron | Olivine | Staurolite | Garnet | Silica | Zircon | Alumina | Glass | |
| 6 | 90 | 59 | 79 | 99 | 76 | 76 | 68 | 75 | 75 | 77 | 80 | 72 | 78 | 75 | 75 | 73 |
| 7 | 90 | 83 | 110 | 138 | 106 | 106 | 94 | 105 | 104 | 108 | 111 | 100 | 108 | 104 | 105 | 101 |
| 8 | 90 | 115 | 154 | 192 | 149 | 148 | 132 | 147 | 145 | 151 | 156 | 139 | 152 | 145 | 147 | 142 |
| 6 | 100 | 75 | 100 | 125 | 107 | 106 | 94 | 106 | 104 | 108 | 112 | 100 | 109 | 104 | 105 | 102 |
| 7 | 100 | 105 | 140 | 175 | 150 | 149 | 132 | 148 | 146 | 152 | 156 | 140 | 152 | 146 | 147 | 142 |
| 8 | 100 | 146 | 195 | 244 | 208 | 207 | 184 | 206 | 203 | 211 | 217 | 195 | 212 | 203 | 205 | 198 |
| 6 | 110 | 95 | 126 | 158 | 149 | 148 | 131 | 147 | 145 | 151 | 155 | 139 | 151 | 145 | 147 | 142 |
| 7 | 110 | 132 | 176 | 220 | 208 | 207 | 184 | 205 | 203 | 211 | 217 | 194 | 212 | 203 | 205 | 198 |
| 8 | 110 | 184 | 245 | 306 | 289 | 288 | 256 | 286 | 282 | 293 | 302 | 271 | 295 | 282 | 285 | 275 |
| 6 | 125 | 132 | 176 | 220 | 241 | 240 | 213 | 238 | 236 | 245 | 252 | 226 | 246 | 236 | 238 | 229 |
| 7 | 125 | 185 | 246 | 308 | 337 | 335 | 298 | 333 | 329 | 342 | 352 | 315 | 343 | 329 | 332 | 321 |
| 8 | 125 | 257 | 342 | 428 | 468 | 466 | 414 | 463 | 458 | 475 | 489 | 439 | 477 | 458 | 462 | 446 |

¹ Production rates are based on a consensus of replies to a user survey.

Tight Rust or Millscale

New Steel

High Profile Range

SSPC-SP 10

Tables 2323

PC

| Operating Conditions | | Production Rate ft ² /hr of Blasting ¹ | | | | | | | | | | | | | | |
|----------------------|----------------|--|--------|------|-----------------------------|------|--------|------|--------------------------------|------------|--------|--------|--------------|---------|-------|------|
| | | Typical Mineral Abrasive | | | Refinery & By-Product Grits | | | | Natural or Mined Grits & Sands | | | | Manufactured | | | |
| Nozzle Size | Pressure (psi) | -25% | Median | +25% | Copper | Coal | Nickel | Iron | Olivine | Staurolite | Garnet | Silica | Zircon | Alumina | Glass | |
| 6 | 90 | 355 | 473 | 591 | 457 | 455 | 404 | 452 | 447 | 464 | 478 | 428 | 466 | 447 | 451 | 435 |
| 7 | 90 | 532 | 709 | 886 | 685 | 682 | 606 | 678 | 670 | 695 | 716 | 642 | 698 | 670 | 676 | 653 |
| 8 | 90 | 709 | 945 | 1181 | 914 | 909 | 808 | 903 | 893 | 927 | 954 | 855 | 931 | 893 | 901 | 870 |
| 6 | 100 | 450 | 600 | 750 | 641 | 638 | 567 | 633 | 626 | 650 | 669 | 600 | 653 | 626 | 632 | 610 |
| 7 | 100 | 675 | 900 | 1125 | 961 | 956 | 850 | 950 | 939 | 975 | 1004 | 900 | 979 | 939 | 947 | 915 |
| 8 | 100 | 900 | 1200 | 1500 | 1282 | 1275 | 1133 | 1267 | 1252 | 1300 | 1338 | 1200 | 1306 | 1252 | 1263 | 1220 |
| 6 | 110 | 566 | 755 | 944 | 891 | 886 | 788 | 880 | 870 | 903 | 930 | 834 | 908 | 870 | 878 | 848 |
| 7 | 110 | 849 | 1132 | 1415 | 1335 | 1329 | 1181 | 1320 | 1305 | 1355 | 1395 | 1250 | 1361 | 1305 | 1316 | 1271 |
| 8 | 110 | 1133 | 1510 | 1888 | 1781 | 1772 | 1575 | 1761 | 1741 | 1807 | 1860 | 1668 | 1815 | 1741 | 1756 | 1696 |
| 6 | 125 | 788 | 1051 | 1314 | 1439 | 1432 | 1273 | 1423 | 1406 | 1460 | 1503 | 1348 | 1467 | 1406 | 1419 | 1370 |
| 7 | 125 | 1183 | 1578 | 1972 | 2161 | 2150 | 1911 | 2136 | 2112 | 2192 | 2257 | 2024 | 2202 | 2112 | 2130 | 2057 |
| 8 | 125 | 1578 | 2104 | 2630 | 2882 | 2867 | 2548 | 2848 | 2816 | 2923 | 3010 | 2698 | 2936 | 2816 | 2840 | 2743 |

¹ Production rates are based on a consensus of replies to a user survey.

Tight Rust or Millscale

New Steel

Low Profile Range

SSPC-SP 6

Tables 2331

PC

| Operating Conditions | | Production Rate ft ² /hr of Blasting ¹ | | | | | | | | | | | | | | |
|----------------------|----------------|--|--------|------|-----------------------------|------|--------|------|--------------------------------|------------|--------|--------|--------------|---------|-------|------|
| | | Typical Mineral Abrasive | | | Refinery & By-Product Grits | | | | Natural or Mined Grits & Sands | | | | Manufactured | | | |
| Nozzle Size | Pressure (psi) | -25% | Median | +25% | Copper | Coal | Nickel | Iron | Olivine | Staurolite | Garnet | Silica | Zircon | Alumina | Glass | |
| 6 | 90 | 355 | 473 | 591 | 457 | 455 | 404 | 452 | 447 | 464 | 478 | 428 | 466 | 447 | 451 | 435 |
| 7 | 90 | 532 | 709 | 886 | 685 | 682 | 606 | 678 | 670 | 695 | 716 | 642 | 698 | 670 | 676 | 653 |
| 8 | 90 | 709 | 945 | 1181 | 914 | 909 | 808 | 903 | 893 | 927 | 954 | 855 | 931 | 893 | 901 | 870 |
| 6 | 100 | 450 | 600 | 750 | 641 | 638 | 567 | 633 | 626 | 650 | 669 | 600 | 653 | 626 | 632 | 610 |
| 7 | 100 | 675 | 900 | 1125 | 961 | 956 | 850 | 950 | 939 | 975 | 1004 | 900 | 979 | 939 | 947 | 915 |
| 8 | 100 | 900 | 1200 | 1500 | 1282 | 1275 | 1133 | 1267 | 1252 | 1300 | 1338 | 1200 | 1306 | 1252 | 1263 | 1220 |
| 6 | 110 | 566 | 755 | 944 | 891 | 886 | 788 | 880 | 870 | 903 | 930 | 834 | 908 | 870 | 878 | 848 |
| 7 | 110 | 849 | 1132 | 1415 | 1335 | 1329 | 1181 | 1320 | 1305 | 1355 | 1395 | 1250 | 1361 | 1305 | 1316 | 1271 |
| 8 | 110 | 1133 | 1510 | 1888 | 1781 | 1772 | 1575 | 1761 | 1741 | 1807 | 1860 | 1668 | 1815 | 1741 | 1756 | 1696 |
| 6 | 125 | 788 | 1051 | 1314 | 1439 | 1432 | 1273 | 1423 | 1406 | 1460 | 1503 | 1348 | 1467 | 1406 | 1419 | 1370 |
| 7 | 125 | 1183 | 1578 | 1972 | 2161 | 2150 | 1911 | 2136 | 2112 | 2192 | 2257 | 2024 | 2202 | 2112 | 2130 | 2057 |
| 8 | 125 | 1578 | 2104 | 2630 | 2882 | 2867 | 2548 | 2848 | 2816 | 2923 | 3010 | 2698 | 2936 | 2816 | 2840 | 2743 |

¹ Production rates are based on a consensus of replies to a user survey.

Tight Rust or Millscale

New Steel

Low Profile Range

SSPC-SP 6

Tables 2331

PC

| Operating Conditions | | Production Rate ft²/hr of Blasting ¹ | | | | | | | | | | | | | | |
|----------------------|----------------|---|--------|------|-----------------------------|------|--------|------|--------------------------------|------------|--------|--------|--------------|---------|-------|------|
| | | Typical Mineral Abrasive | | | Refinery & By-Product Grits | | | | Natural or Mined Grits & Sands | | | | Manufactured | | | |
| Nozzle Size | Pressure (psi) | -25% | Median | +25% | Copper | Coal | Nickel | Iron | Olivine | Staurolite | Garnet | Silica | Zircon | Alumina | Glass | |
| 6 | 90 | 236 | 315 | 394 | 305 | 303 | 269 | 301 | 298 | 309 | 318 | 285 | 310 | 298 | 300 | 290 |
| 7 | 90 | 355 | 473 | 591 | 457 | 455 | 404 | 452 | 447 | 464 | 478 | 428 | 466 | 447 | 451 | 435 |
| 8 | 90 | 472 | 630 | 787 | 609 | 606 | 539 | 602 | 595 | 618 | 636 | 570 | 621 | 595 | 600 | 580 |
| 6 | 100 | 300 | 400 | 500 | 427 | 425 | 378 | 422 | 417 | 433 | 446 | 400 | 435 | 417 | 421 | 407 |
| 7 | 100 | 450 | 600 | 750 | 641 | 638 | 567 | 633 | 626 | 650 | 669 | 600 | 653 | 626 | 632 | 610 |
| 8 | 100 | 600 | 800 | 1000 | 854 | 850 | 756 | 844 | 835 | 867 | 892 | 800 | 871 | 835 | 842 | 813 |
| 6 | 110 | 377 | 503 | 629 | 593 | 590 | 525 | 586 | 580 | 602 | 620 | 556 | 605 | 580 | 585 | 565 |
| 7 | 110 | 566 | 755 | 944 | 891 | 886 | 788 | 880 | 870 | 903 | 930 | 834 | 908 | 870 | 878 | 848 |
| 8 | 110 | 755 | 1007 | 1259 | 1188 | 1182 | 1051 | 1174 | 1161 | 1205 | 1241 | 1112 | 1211 | 1161 | 1171 | 1131 |
| 6 | 125 | 526 | 701 | 876 | 960 | 955 | 849 | 949 | 938 | 974 | 1003 | 899 | 978 | 938 | 946 | 914 |
| 7 | 125 | 789 | 1052 | 1315 | 1441 | 1433 | 1274 | 1424 | 1408 | 1462 | 1505 | 1349 | 1468 | 1408 | 1420 | 1372 |
| 8 | 125 | 1052 | 1403 | 1754 | 1922 | 1912 | 1699 | 1899 | 1877 | 1949 | 2007 | 1799 | 1958 | 1877 | 1894 | 1829 |

¹ Production rates are based on a consensus of replies to a user survey.

Tight Rust or Millscale

New Steel

Medium Profile Range

SSPC-SP 6

Tables 2332

PC

| Operating Conditions | | Production Rate ft²/hr of Blasting ¹ | | | | | | | | | | | | | | |
|----------------------|----------------|---|--------|------|-----------------------------|------|--------|------|--------------------------------|------------|--------|--------|--------------|---------|-------|------|
| | | Typical Mineral Abrasive | | | Refinery & By-Product Grits | | | | Natural or Mined Grits & Sands | | | | Manufactured | | | |
| Nozzle Size | Pressure (psi) | -25% | Median | +25% | Copper | Coal | Nickel | Iron | Olivine | Staurolite | Garnet | Silica | Zircon | Alumina | Glass | |
| 6 | 90 | 236 | 315 | 394 | 305 | 303 | 269 | 301 | 298 | 309 | 318 | 285 | 310 | 298 | 300 | 290 |
| 7 | 90 | 355 | 473 | 591 | 457 | 455 | 404 | 452 | 447 | 464 | 478 | 428 | 466 | 447 | 451 | 435 |
| 8 | 90 | 472 | 630 | 787 | 609 | 606 | 539 | 602 | 595 | 618 | 636 | 570 | 621 | 595 | 600 | 580 |
| 6 | 100 | 300 | 400 | 500 | 427 | 425 | 378 | 422 | 417 | 433 | 446 | 400 | 435 | 417 | 421 | 407 |
| 7 | 100 | 450 | 600 | 750 | 641 | 638 | 567 | 633 | 626 | 650 | 669 | 600 | 653 | 626 | 632 | 610 |
| 8 | 100 | 600 | 800 | 1000 | 854 | 850 | 756 | 844 | 835 | 867 | 892 | 800 | 871 | 835 | 842 | 813 |
| 6 | 110 | 377 | 503 | 629 | 593 | 590 | 525 | 586 | 580 | 602 | 620 | 556 | 605 | 580 | 585 | 565 |
| 7 | 110 | 566 | 755 | 944 | 891 | 886 | 788 | 880 | 870 | 903 | 930 | 834 | 908 | 870 | 878 | 848 |
| 8 | 110 | 755 | 1007 | 1259 | 1188 | 1182 | 1051 | 1174 | 1161 | 1205 | 1241 | 1112 | 1211 | 1161 | 1171 | 1131 |
| 6 | 125 | 526 | 701 | 876 | 960 | 955 | 849 | 949 | 938 | 974 | 1003 | 899 | 978 | 938 | 946 | 914 |
| 7 | 125 | 789 | 1052 | 1315 | 1441 | 1433 | 1274 | 1424 | 1408 | 1462 | 1505 | 1349 | 1468 | 1408 | 1420 | 1372 |
| 8 | 125 | 1052 | 1403 | 1754 | 1922 | 1912 | 1699 | 1899 | 1877 | 1949 | 2007 | 1799 | 1958 | 1877 | 1894 | 1829 |

¹ Production rates are based on a consensus of replies to a user survey.

Tight Rust or Millscale

New Steel

Medium Profile Range

SSPC-SP 6

Tables 2332

PC

| Operating Conditions | | Production Rate ft²/hr of Blasting ¹ | | | | | | | | | | | | | | |
|----------------------|----------------|---|--------|------|-----------------------------|------|--------|------|--------------------------------|------------|--------|--------|--------------|---------|-------|-----|
| | | Typical Mineral Abrasive | | | Refinery & By-Product Grits | | | | Natural or Mined Grits & Sands | | | | Manufactured | | | |
| Nozzle Size | Pressure (psi) | -25% | Median | +25% | Copper | Coal | Nickel | Iron | Olivine | Staurolite | Garnet | Silica | Zircon | Alumina | Glass | |
| 6 | 90 | 119 | 158 | 198 | 153 | 152 | 135 | 151 | 149 | 155 | 160 | 143 | 156 | 149 | 151 | 145 |
| 7 | 90 | 177 | 236 | 295 | 228 | 227 | 202 | 226 | 223 | 231 | 238 | 214 | 232 | 223 | 225 | 217 |
| 8 | 90 | 236 | 315 | 394 | 305 | 303 | 269 | 301 | 298 | 309 | 318 | 285 | 310 | 298 | 300 | 290 |
| 6 | 100 | 150 | 200 | 250 | 214 | 213 | 189 | 211 | 209 | 217 | 223 | 200 | 218 | 209 | 211 | 203 |
| 7 | 100 | 225 | 300 | 375 | 320 | 319 | 283 | 317 | 313 | 325 | 335 | 300 | 326 | 313 | 316 | 305 |
| 8 | 100 | 300 | 400 | 500 | 427 | 425 | 378 | 422 | 417 | 433 | 446 | 400 | 435 | 417 | 421 | 407 |
| 6 | 110 | 189 | 252 | 315 | 297 | 296 | 263 | 294 | 290 | 302 | 310 | 278 | 303 | 290 | 293 | 283 |
| 7 | 110 | 283 | 377 | 471 | 445 | 442 | 393 | 440 | 435 | 451 | 464 | 416 | 453 | 435 | 438 | 423 |
| 8 | 110 | 377 | 503 | 629 | 593 | 590 | 525 | 586 | 580 | 602 | 620 | 556 | 605 | 580 | 585 | 565 |
| 6 | 125 | 263 | 350 | 438 | 479 | 477 | 424 | 474 | 468 | 486 | 501 | 449 | 488 | 468 | 472 | 456 |
| 7 | 125 | 395 | 526 | 658 | 720 | 717 | 637 | 712 | 704 | 731 | 752 | 675 | 734 | 704 | 710 | 686 |
| 8 | 125 | 526 | 701 | 876 | 960 | 955 | 849 | 949 | 938 | 974 | 1003 | 899 | 978 | 938 | 946 | 914 |

¹ Production rates are based on a consensus of replies to a user survey.

Tight Rust or Millscale

New Steel

High Profile Range

SSPC-SP 6

Tables 2333 PC

| Operating Conditions | | Production Rate ft²/hr of Blasting ¹ | | | | | | | | | | | | | | |
|----------------------|----------------|---|--------|------|-----------------------------|------|--------|------|--------------------------------|------------|--------|--------|--------------|---------|-------|-----|
| | | Typical Mineral Abrasive | | | Refinery & By-Product Grits | | | | Natural or Mined Grits & Sands | | | | Manufactured | | | |
| Nozzle Size | Pressure (psi) | -25% | Median | +25% | Copper | Coal | Nickel | Iron | Olivine | Staurolite | Garnet | Silica | Zircon | Alumina | Glass | |
| 6 | 90 | 119 | 158 | 198 | 153 | 152 | 135 | 151 | 149 | 155 | 160 | 143 | 156 | 149 | 151 | 145 |
| 7 | 90 | 177 | 236 | 295 | 228 | 227 | 202 | 226 | 223 | 231 | 238 | 214 | 232 | 223 | 225 | 217 |
| 8 | 90 | 236 | 315 | 394 | 305 | 303 | 269 | 301 | 298 | 309 | 318 | 285 | 310 | 298 | 300 | 290 |
| 6 | 100 | 150 | 200 | 250 | 214 | 213 | 189 | 211 | 209 | 217 | 223 | 200 | 218 | 209 | 211 | 203 |
| 7 | 100 | 225 | 300 | 375 | 320 | 319 | 283 | 317 | 313 | 325 | 335 | 300 | 326 | 313 | 316 | 305 |
| 8 | 100 | 300 | 400 | 500 | 427 | 425 | 378 | 422 | 417 | 433 | 446 | 400 | 435 | 417 | 421 | 407 |
| 6 | 110 | 189 | 252 | 315 | 297 | 296 | 263 | 294 | 290 | 302 | 310 | 278 | 303 | 290 | 293 | 283 |
| 7 | 110 | 283 | 377 | 471 | 445 | 442 | 393 | 440 | 435 | 451 | 464 | 416 | 453 | 435 | 438 | 423 |
| 8 | 110 | 377 | 503 | 629 | 593 | 590 | 525 | 586 | 580 | 602 | 620 | 556 | 605 | 580 | 585 | 565 |
| 6 | 125 | 263 | 350 | 438 | 479 | 477 | 424 | 474 | 468 | 486 | 501 | 449 | 488 | 468 | 472 | 456 |
| 7 | 125 | 395 | 526 | 658 | 720 | 717 | 637 | 712 | 704 | 731 | 752 | 675 | 734 | 704 | 710 | 686 |
| 8 | 125 | 526 | 701 | 876 | 960 | 955 | 849 | 949 | 938 | 974 | 1003 | 899 | 978 | 938 | 946 | 914 |

¹ Production rates are based on a consensus of replies to a user survey.

Tight Rust or Millscale

New Steel

High Profile Range

SSPC-SP 6

Tables 2333

PC

| Operating Conditions | | Production Rate ft ² /hr of Blasting ¹ | | | | | | | | | | | | | | |
|----------------------|----------------|--|--------|------|-----------------------------|------|--------|------|--------------------------------|------------|--------|--------|--------------|---------|-------|------|
| | | Typical Mineral Abrasive | | | Refinery & By-Product Grits | | | | Natural or Mined Grits & Sands | | | | Manufactured | | | |
| Nozzle Size | Pressure (psi) | -25% | Median | +25% | Copper | Coal | Nickel | Iron | Olivine | Staurolite | Garnet | Silica | Zircon | Alumina | Glass | |
| 6 | 90 | 591 | 788 | 985 | 762 | 758 | 674 | 753 | 744 | 773 | 796 | 713 | 776 | 744 | 751 | 725 |
| 7 | 90 | 886 | 1181 | 1476 | 1142 | 1136 | 1010 | 1129 | 1116 | 1158 | 1193 | 1069 | 1163 | 1116 | 1125 | 1087 |
| 8 | 90 | 1181 | 1574 | 1968 | 1522 | 1514 | 1346 | 1504 | 1487 | 1544 | 1589 | 1425 | 1551 | 1487 | 1500 | 1449 |
| 6 | 100 | 750 | 1000 | 1250 | 1068 | 1063 | 944 | 1056 | 1043 | 1083 | 1115 | 1000 | 1088 | 1043 | 1053 | 1017 |
| 7 | 100 | 1125 | 1500 | 1875 | 1602 | 1594 | 1417 | 1583 | 1565 | 1625 | 1673 | 1500 | 1632 | 1565 | 1579 | 1525 |
| 8 | 100 | 1500 | 2000 | 2500 | 2136 | 2125 | 1889 | 2111 | 2087 | 2167 | 2231 | 2000 | 2176 | 2087 | 2105 | 2033 |
| 6 | 110 | 944 | 1258 | 1573 | 1484 | 1476 | 1312 | 1467 | 1450 | 1505 | 1550 | 1390 | 1512 | 1450 | 1463 | 1413 |
| 7 | 110 | 1416 | 1888 | 2360 | 2227 | 2216 | 1970 | 2201 | 2176 | 2259 | 2326 | 2086 | 2270 | 2176 | 2195 | 2120 |
| 8 | 110 | 1889 | 2518 | 3148 | 2970 | 2955 | 2627 | 2936 | 2902 | 3013 | 3102 | 2781 | 3027 | 2902 | 2928 | 2828 |
| 6 | 125 | 1315 | 1753 | 2191 | 2401 | 2389 | 2123 | 2373 | 2346 | 2435 | 2507 | 2248 | 2446 | 2346 | 2366 | 2286 |
| 7 | 125 | 1972 | 2629 | 3286 | 3601 | 3582 | 3184 | 3559 | 3518 | 3652 | 3761 | 3372 | 3669 | 3518 | 3549 | 3428 |
| 8 | 125 | 2630 | 3507 | 4384 | 4803 | 4779 | 4248 | 4747 | 4693 | 4872 | 5016 | 4497 | 4894 | 4693 | 4734 | 4572 |

¹ Production rates are based on a consensus of replies to a user survey.

Tight Rust or Millscale

New Steel

Low Profile Range

SSPC-SP 7

Tables 2341

PC

| Operating Conditions | | Production Rate ft ² /hr of Blasting ¹ | | | | | | | | | | | | | | |
|----------------------|----------------|--|--------|------|-----------------------------|------|--------|------|--------------------------------|------------|--------|--------|--------------|---------|-------|------|
| | | Typical Mineral Abrasive | | | Refinery & By-Product Grits | | | | Natural or Mined Grits & Sands | | | | Manufactured | | | |
| Nozzle Size | Pressure (psi) | -25% | Median | +25% | Copper | Coal | Nickel | Iron | Olivine | Staurolite | Garnet | Silica | Zircon | Alumina | Glass | |
| 6 | 90 | 591 | 788 | 985 | 762 | 758 | 674 | 753 | 744 | 773 | 796 | 713 | 776 | 744 | 751 | 725 |
| 7 | 90 | 886 | 1181 | 1476 | 1142 | 1136 | 1010 | 1129 | 1116 | 1158 | 1193 | 1069 | 1163 | 1116 | 1125 | 1087 |
| 8 | 90 | 1181 | 1574 | 1968 | 1522 | 1514 | 1346 | 1504 | 1487 | 1544 | 1589 | 1425 | 1551 | 1487 | 1500 | 1449 |
| 6 | 100 | 750 | 1000 | 1250 | 1068 | 1063 | 944 | 1056 | 1043 | 1083 | 1115 | 1000 | 1088 | 1043 | 1053 | 1017 |
| 7 | 100 | 1125 | 1500 | 1875 | 1602 | 1594 | 1417 | 1583 | 1565 | 1625 | 1673 | 1500 | 1632 | 1565 | 1579 | 1525 |
| 8 | 100 | 1500 | 2000 | 2500 | 2136 | 2125 | 1889 | 2111 | 2087 | 2167 | 2231 | 2000 | 2176 | 2087 | 2105 | 2033 |
| 6 | 110 | 944 | 1258 | 1573 | 1484 | 1476 | 1312 | 1467 | 1450 | 1505 | 1550 | 1390 | 1512 | 1450 | 1463 | 1413 |
| 7 | 110 | 1416 | 1888 | 2360 | 2227 | 2216 | 1970 | 2201 | 2176 | 2259 | 2326 | 2086 | 2270 | 2176 | 2195 | 2120 |
| 8 | 110 | 1889 | 2518 | 3148 | 2970 | 2955 | 2627 | 2936 | 2902 | 3013 | 3102 | 2781 | 3027 | 2902 | 2928 | 2828 |
| 6 | 125 | 1315 | 1753 | 2191 | 2401 | 2389 | 2123 | 2373 | 2346 | 2435 | 2507 | 2248 | 2446 | 2346 | 2366 | 2286 |
| 7 | 125 | 1972 | 2629 | 3286 | 3601 | 3582 | 3184 | 3559 | 3518 | 3652 | 3761 | 3372 | 3669 | 3518 | 3549 | 3428 |
| 8 | 125 | 2630 | 3507 | 4384 | 4803 | 4779 | 4248 | 4747 | 4693 | 4872 | 5016 | 4497 | 4894 | 4693 | 4734 | 4572 |

¹ Production rates are based on a consensus of replies to a user survey.

Tight Rust or Millscale

New Steel

Low Profile Range

SSPC-SP 7

Tables 2341

PC

| Operating Conditions | | Production Rate ft²/hr of Blasting ¹ | | | | | | | | | | | | | | |
|----------------------|----------------|---|--------|------|-----------------------------|------|--------|------|--------------------------------|------------|--------|--------|--------------|---------|-------|-----|
| | | Typical Mineral Abrasive | | | Refinery & By-Product Grits | | | | Natural or Mined Grits & Sands | | | | Manufactured | | | |
| Nozzle Size | Pressure (psi) | -25% | Median | +25% | Copper | Coal | Nickel | Iron | Olivine | Staurolite | Garnet | Silica | Zircon | Alumina | Glass | |
| 6 | 90 | 116 | 154 | 193 | 149 | 148 | 132 | 147 | 145 | 151 | 156 | 139 | 152 | 145 | 147 | 142 |
| 7 | 90 | 169 | 225 | 281 | 218 | 216 | 192 | 215 | 213 | 221 | 227 | 204 | 222 | 213 | 214 | 207 |
| 8 | 90 | 230 | 307 | 384 | 297 | 295 | 262 | 293 | 290 | 301 | 310 | 278 | 302 | 290 | 293 | 283 |
| 6 | 100 | 146 | 195 | 244 | 208 | 207 | 184 | 206 | 203 | 211 | 218 | 195 | 212 | 203 | 205 | 198 |
| 7 | 100 | 214 | 285 | 356 | 304 | 303 | 269 | 301 | 297 | 309 | 318 | 285 | 310 | 297 | 300 | 290 |
| 8 | 100 | 293 | 390 | 488 | 417 | 414 | 368 | 412 | 407 | 423 | 435 | 390 | 424 | 407 | 411 | 396 |
| 6 | 110 | 184 | 245 | 306 | 289 | 288 | 256 | 286 | 282 | 293 | 302 | 271 | 295 | 282 | 285 | 275 |
| 7 | 110 | 269 | 359 | 449 | 424 | 421 | 375 | 419 | 414 | 430 | 442 | 397 | 432 | 414 | 417 | 403 |
| 8 | 110 | 368 | 491 | 614 | 579 | 576 | 512 | 573 | 566 | 588 | 605 | 542 | 590 | 566 | 571 | 551 |
| 6 | 125 | 257 | 342 | 428 | 468 | 466 | 414 | 463 | 458 | 475 | 489 | 439 | 477 | 458 | 462 | 446 |
| 7 | 125 | 374 | 499 | 624 | 683 | 680 | 604 | 675 | 668 | 693 | 714 | 640 | 696 | 668 | 674 | 651 |
| 8 | 125 | 513 | 684 | 855 | 937 | 932 | 828 | 926 | 915 | 950 | 978 | 877 | 955 | 915 | 923 | 892 |

¹ Production rates are based on a consensus of replies to a user survey.

Thin Paint or Rusted Thin Paint

Hard Coating

Low Profile Range

SSPC-SP 5

Tables 3111 PC

| Operating Conditions | | Production Rate ft ² /hr of Blasting ¹ | | | | | | | | | | | | | | |
|----------------------|----------------|--|--------|------|-----------------------------|------|--------|------|--------------------------------|------------|--------|--------|--------------|---------|-------|------|
| | | Typical Mineral Abrasive | | | Refinery & By-Product Grits | | | | Natural or Mined Grits & Sands | | | | Manufactured | | | |
| Nozzle Size | Pressure (psi) | -25% | Median | +25% | Copper | Coal | Nickel | Iron | Olivine | Staurolite | Garnet | Silica | Zircon | Alumina | Glass | Iron |
| 6 | 90 | 77 | 103 | 129 | 100 | 99 | 88 | 98 | 97 | 101 | 104 | 93 | 101 | 97 | 98 | 95 |
| 7 | 90 | 113 | 150 | 188 | 145 | 144 | 128 | 143 | 142 | 147 | 151 | 136 | 148 | 142 | 143 | 138 |
| 8 | 90 | 153 | 204 | 255 | 197 | 196 | 174 | 195 | 193 | 200 | 206 | 185 | 201 | 193 | 194 | 188 |
| 6 | 100 | 98 | 130 | 163 | 139 | 138 | 123 | 137 | 136 | 141 | 145 | 130 | 141 | 136 | 137 | 132 |
| 7 | 100 | 143 | 190 | 238 | 203 | 202 | 179 | 201 | 198 | 206 | 212 | 190 | 207 | 198 | 200 | 193 |
| 8 | 100 | 195 | 260 | 325 | 278 | 276 | 246 | 274 | 271 | 282 | 290 | 260 | 283 | 271 | 274 | 264 |
| 6 | 110 | 122 | 163 | 204 | 192 | 191 | 170 | 190 | 188 | 195 | 201 | 180 | 196 | 188 | 190 | 183 |
| 7 | 110 | 179 | 239 | 299 | 282 | 281 | 249 | 279 | 275 | 286 | 294 | 264 | 287 | 275 | 278 | 268 |
| 8 | 110 | 246 | 328 | 410 | 387 | 385 | 342 | 382 | 378 | 393 | 404 | 362 | 394 | 378 | 381 | 368 |
| 6 | 125 | 171 | 228 | 285 | 312 | 311 | 276 | 309 | 305 | 317 | 326 | 292 | 318 | 305 | 308 | 297 |
| 7 | 125 | 250 | 333 | 416 | 456 | 454 | 403 | 451 | 446 | 463 | 476 | 427 | 465 | 446 | 450 | 434 |
| 8 | 125 | 342 | 456 | 570 | 625 | 621 | 552 | 617 | 610 | 634 | 652 | 585 | 636 | 610 | 616 | 595 |

¹ Production rates are based on a consensus of replies to a user survey.

Thin Paint or Rusted Thin Paint

Hard Coating

Medium Profile Range

SSPC-SP 5

Tables 3112

PC

| Operating Conditions | | Production Rate ft ² /hr of Blasting ¹ | | | | | | | | | | | | | | |
|----------------------|----------------|--|--------|------|-----------------------------|------|--------|------|--------------------------------|------------|--------|--------|--------------|---------|-------|------|
| | | Typical Mineral Abrasive | | | Refinery & By-Product Grits | | | | Natural or Mined Grits & Sands | | | | Manufactured | | | |
| Nozzle Size | Pressure (psi) | -25% | Median | +25% | Copper | Coal | Nickel | Iron | Olivine | Staurolite | Garnet | Silica | Zircon | Alumina | Glass | Iron |
| 6 | 90 | 38 | 51 | 64 | 49 | 49 | 44 | 49 | 48 | 50 | 51 | 46 | 50 | 48 | 49 | 47 |
| 7 | 90 | 56 | 75 | 94 | 73 | 72 | 64 | 72 | 71 | 74 | 76 | 68 | 74 | 71 | 71 | 69 |
| 8 | 90 | 77 | 102 | 128 | 99 | 98 | 87 | 97 | 96 | 100 | 103 | 92 | 100 | 96 | 97 | 94 |
| 6 | 100 | 49 | 65 | 81 | 69 | 69 | 61 | 69 | 68 | 70 | 73 | 65 | 71 | 68 | 68 | 66 |
| 7 | 100 | 71 | 95 | 119 | 101 | 101 | 90 | 100 | 99 | 103 | 106 | 95 | 103 | 99 | 100 | 97 |
| 8 | 100 | 98 | 130 | 163 | 139 | 138 | 123 | 137 | 136 | 141 | 145 | 130 | 141 | 136 | 137 | 132 |
| 6 | 110 | 62 | 82 | 103 | 97 | 96 | 86 | 96 | 95 | 98 | 101 | 91 | 99 | 95 | 95 | 92 |
| 7 | 110 | 90 | 120 | 150 | 142 | 141 | 125 | 140 | 138 | 144 | 148 | 133 | 144 | 138 | 140 | 135 |
| 8 | 110 | 123 | 164 | 205 | 193 | 192 | 171 | 191 | 189 | 196 | 202 | 181 | 197 | 189 | 191 | 184 |
| 6 | 125 | 86 | 114 | 143 | 156 | 155 | 138 | 154 | 153 | 158 | 163 | 146 | 159 | 153 | 154 | 149 |
| 7 | 125 | 125 | 166 | 208 | 227 | 226 | 201 | 225 | 222 | 231 | 237 | 213 | 232 | 222 | 224 | 216 |
| 8 | 125 | 171 | 228 | 285 | 312 | 311 | 276 | 309 | 305 | 317 | 326 | 292 | 318 | 305 | 308 | 297 |

¹ Production rates are based on a consensus of replies to a user survey.

Thin Paint or Rusted Thin Paint

Hard Coating

High Profile Range

SSPC-SP 5

Tables 3113

PC

| Operating Conditions | | Production Rate ft ² /hr of Blasting ¹ | | | | | | | | | | | | | | | |
|----------------------|----------------|--|--------|------|-----------------------------|------|--------|------|--------------------------------|------------|--------|--------|--------------|---------|-------|-----|------------|
| Nozzle Size | Pressure (psi) | Typical Mineral Abrasive | | | Refinery & By-Product Grits | | | | Natural or Mined Grits & Sands | | | | Manufactured | | | | Steel Iron |
| | | -25% | Median | +25% | Copper | Coal | Nickel | Iron | Olivine | Staurolite | Garnet | Silica | Zircon | Alumina | Glass | | |
| 6 | 90 | 134 | 178 | 223 | 172 | 171 | 152 | 170 | 168 | 175 | 180 | 161 | 175 | 168 | 170 | 164 | |
| 7 | 90 | 186 | 248 | 310 | 240 | 239 | 212 | 237 | 234 | 243 | 250 | 225 | 244 | 234 | 236 | 228 | |
| 8 | 90 | 257 | 342 | 428 | 331 | 329 | 292 | 327 | 323 | 335 | 345 | 310 | 337 | 323 | 326 | 315 | |
| 6 | 100 | 169 | 225 | 281 | 240 | 239 | 213 | 238 | 235 | 244 | 251 | 225 | 245 | 235 | 237 | 229 | |
| 7 | 100 | 236 | 315 | 394 | 336 | 335 | 298 | 333 | 329 | 341 | 351 | 315 | 343 | 329 | 332 | 320 | |
| 8 | 100 | 326 | 435 | 544 | 465 | 462 | 411 | 459 | 454 | 471 | 485 | 435 | 473 | 454 | 458 | 442 | |
| 6 | 110 | 212 | 283 | 354 | 334 | 332 | 295 | 330 | 326 | 339 | 349 | 313 | 340 | 326 | 329 | 318 | |
| 7 | 110 | 297 | 396 | 495 | 467 | 465 | 413 | 462 | 456 | 474 | 488 | 437 | 476 | 456 | 460 | 445 | |
| 8 | 110 | 411 | 548 | 685 | 646 | 643 | 572 | 639 | 632 | 656 | 675 | 605 | 659 | 632 | 637 | 615 | |
| 6 | 125 | 296 | 395 | 494 | 541 | 538 | 478 | 535 | 529 | 549 | 565 | 507 | 551 | 529 | 533 | 515 | |
| 7 | 125 | 414 | 552 | 690 | 756 | 752 | 669 | 747 | 739 | 767 | 790 | 708 | 770 | 739 | 745 | 720 | |
| 8 | 125 | 572 | 762 | 953 | 1044 | 1038 | 923 | 1032 | 1020 | 1059 | 1090 | 977 | 1063 | 1020 | 1029 | 994 | |

¹ Production rates are based on a consensus of replies to a user survey.

Thin Paint or Rusted Thin Paint

Hard Coating

Low Profile Range

SSPC-SP 10

Tables 3121

PC

| Operating Conditions | | Production Rate ft ² /hr of Blasting ¹ | | | | | | | | | | | | | | |
|----------------------|----------------|--|--------|------|-----------------------------|------|--------|------|--------------------------------|------------|--------|--------|--------------|---------|-------|-----|
| | | Typical Mineral Abrasive | | | Refinery & By-Product Grits | | | | Natural or Mined Grits & Sands | | | | Manufactured | | | |
| Nozzle Size | Pressure (psi) | -25% | Median | +25% | Copper | Coal | Nickel | Iron | Olivine | Staurolite | Garnet | Silica | Zircon | Alumina | Glass | |
| 6 | 90 | 89 | 118 | 148 | 114 | 114 | 101 | 113 | 111 | 116 | 119 | 107 | 116 | 111 | 112 | 109 |
| 7 | 90 | 124 | 165 | 206 | 160 | 159 | 141 | 158 | 156 | 162 | 167 | 149 | 163 | 156 | 157 | 152 |
| 8 | 90 | 171 | 228 | 285 | 220 | 219 | 195 | 218 | 215 | 224 | 230 | 206 | 225 | 215 | 217 | 210 |
| 6 | 100 | 113 | 150 | 188 | 160 | 159 | 142 | 158 | 157 | 163 | 167 | 150 | 163 | 157 | 158 | 153 |
| 7 | 100 | 158 | 210 | 263 | 224 | 223 | 198 | 222 | 219 | 228 | 234 | 210 | 229 | 219 | 221 | 214 |
| 8 | 100 | 218 | 290 | 363 | 310 | 308 | 274 | 306 | 303 | 314 | 323 | 290 | 316 | 303 | 305 | 295 |
| 6 | 110 | 141 | 188 | 235 | 222 | 221 | 196 | 219 | 217 | 225 | 232 | 208 | 226 | 217 | 219 | 211 |
| 7 | 110 | 198 | 264 | 330 | 311 | 310 | 275 | 308 | 304 | 316 | 325 | 292 | 317 | 304 | 307 | 296 |
| 8 | 110 | 274 | 365 | 456 | 431 | 428 | 381 | 426 | 421 | 437 | 450 | 403 | 439 | 421 | 424 | 410 |
| 6 | 125 | 197 | 263 | 329 | 360 | 358 | 319 | 356 | 352 | 365 | 376 | 337 | 367 | 352 | 355 | 343 |
| 7 | 125 | 276 | 368 | 460 | 504 | 501 | 446 | 498 | 492 | 511 | 526 | 472 | 514 | 492 | 497 | 480 |
| 8 | 125 | 381 | 508 | 635 | 696 | 692 | 615 | 688 | 680 | 706 | 727 | 651 | 709 | 680 | 686 | 662 |

¹ Production rates are based on a consensus of replies to a user survey.

Thin Paint or Rusted Thin Paint

Hard Coating

Medium Profile Range

SSPC-SP 10

Tables 3122

PC

| Operating Conditions | | Production Rate ft ² /hr of Blasting ¹ | | | | | | | | | | | | | | |
|----------------------|----------------|--|--------|------|-----------------------------|------|--------|------|--------------------------------|------------|--------|--------|--------------|---------|-------|-----|
| | | Typical Mineral Abrasive | | | Refinery & By-Product Grits | | | | Natural or Mined Grits & Sands | | | | Manufactured | | | |
| Nozzle Size | Pressure (psi) | -25% | Median | +25% | Copper | Coal | Nickel | Iron | Olivine | Staurolite | Garnet | Silica | Zircon | Alumina | Glass | |
| 6 | 90 | 44 | 59 | 74 | 57 | 57 | 50 | 56 | 56 | 58 | 60 | 53 | 58 | 56 | 56 | 54 |
| 7 | 90 | 62 | 83 | 104 | 80 | 80 | 71 | 79 | 78 | 81 | 84 | 75 | 82 | 78 | 79 | 76 |
| 8 | 90 | 86 | 114 | 143 | 110 | 110 | 97 | 109 | 108 | 112 | 115 | 103 | 112 | 108 | 109 | 105 |
| 6 | 100 | 56 | 75 | 94 | 80 | 80 | 71 | 79 | 78 | 81 | 84 | 75 | 82 | 78 | 79 | 76 |
| 7 | 100 | 79 | 105 | 131 | 112 | 112 | 99 | 111 | 110 | 114 | 117 | 105 | 114 | 110 | 111 | 107 |
| 8 | 100 | 109 | 145 | 181 | 155 | 154 | 137 | 153 | 151 | 157 | 162 | 145 | 158 | 151 | 153 | 147 |
| 6 | 110 | 70 | 94 | 118 | 111 | 110 | 98 | 110 | 108 | 112 | 116 | 104 | 113 | 108 | 109 | 106 |
| 7 | 110 | 99 | 132 | 165 | 156 | 155 | 138 | 154 | 152 | 158 | 163 | 146 | 159 | 152 | 153 | 148 |
| 8 | 110 | 137 | 183 | 229 | 216 | 215 | 191 | 213 | 211 | 219 | 225 | 202 | 220 | 211 | 213 | 206 |
| 6 | 125 | 99 | 132 | 165 | 181 | 180 | 160 | 179 | 177 | 183 | 189 | 169 | 184 | 177 | 178 | 172 |
| 7 | 125 | 138 | 184 | 230 | 252 | 251 | 223 | 249 | 246 | 256 | 263 | 236 | 257 | 246 | 248 | 240 |
| 8 | 125 | 191 | 254 | 318 | 348 | 346 | 308 | 344 | 340 | 353 | 363 | 326 | 354 | 340 | 343 | 331 |

¹ Production rates are based on a consensus of replies to a user survey.

Thin Paint or Rusted Thin Paint

Hard Coating

High Profile Range

SSPC-SP 10

Tables 3123

PC

| Operating Conditions | | Production Rate ft²/hr of Blasting ¹ | | | | | | | | | | | | | | |
|----------------------|----------------|---|--------|------|-----------------------------|------|--------|------|--------------------------------|------------|--------|--------|--------------|---------|-------|------|
| | | Typical Mineral Abrasive | | | Refinery & By-Product Grits | | | | Natural or Mined Grits & Sands | | | | Manufactured | | | |
| Nozzle Size | Pressure (psi) | -25% | Median | +25% | Copper | Coal | Nickel | Iron | Olivine | Staurolite | Garnet | Silica | Zircon | Alumina | Glass | |
| 6 | 90 | 266 | 354 | 443 | 342 | 341 | 303 | 338 | 334 | 347 | 357 | 320 | 349 | 334 | 337 | 326 |
| 7 | 90 | 398 | 531 | 664 | 513 | 511 | 454 | 507 | 502 | 521 | 536 | 481 | 523 | 502 | 506 | 489 |
| 8 | 90 | 532 | 709 | 886 | 685 | 682 | 606 | 678 | 670 | 695 | 716 | 642 | 698 | 670 | 676 | 653 |
| 6 | 100 | 338 | 450 | 563 | 481 | 478 | 425 | 475 | 470 | 488 | 502 | 450 | 490 | 470 | 474 | 458 |
| 7 | 100 | 506 | 675 | 844 | 721 | 717 | 638 | 713 | 704 | 731 | 753 | 675 | 735 | 704 | 711 | 686 |
| 8 | 100 | 675 | 900 | 1125 | 961 | 956 | 850 | 950 | 939 | 975 | 1004 | 900 | 979 | 939 | 947 | 915 |
| 6 | 110 | 425 | 567 | 709 | 669 | 665 | 592 | 661 | 654 | 679 | 699 | 626 | 682 | 654 | 659 | 637 |
| 7 | 110 | 638 | 850 | 1063 | 1003 | 998 | 887 | 991 | 980 | 1017 | 1047 | 939 | 1022 | 980 | 988 | 955 |
| 8 | 110 | 849 | 1132 | 1415 | 1335 | 1329 | 1181 | 1320 | 1305 | 1355 | 1395 | 1250 | 1361 | 1305 | 1316 | 1271 |
| 6 | 125 | 591 | 788 | 985 | 1079 | 1074 | 954 | 1067 | 1054 | 1095 | 1127 | 1011 | 1100 | 1054 | 1064 | 1027 |
| 7 | 125 | 887 | 1183 | 1479 | 1620 | 1612 | 1433 | 1601 | 1583 | 1644 | 1692 | 1517 | 1651 | 1583 | 1597 | 1542 |
| 8 | 125 | 1184 | 1578 | 1973 | 2161 | 2150 | 1911 | 2136 | 2112 | 2192 | 2257 | 2024 | 2202 | 2112 | 2130 | 2057 |

¹ Production rates are based on a consensus of replies to a user survey.

Thin Paint or Rusted Thin Paint

Hard Coating

Low Profile Range

SSPC-SP 6

Tables 3131

PC

| Operating Conditions | | Production Rate ft ² /hr of Blasting ¹ | | | | | | | | | | | | | | |
|----------------------|----------------|--|--------|------|-----------------------------|------|--------|------|--------------------------------|------------|--------|--------|--------------|---------|-------|------|
| | | Typical Mineral Abrasive | | | Refinery & By-Product Grits | | | | Natural or Mined Grits & Sands | | | | Manufactured | | | |
| Nozzle Size | Pressure (psi) | -25% | Median | +25% | Copper | Coal | Nickel | Iron | Olivine | Staurolite | Garnet | Silica | Zircon | Alumina | Glass | |
| 6 | 90 | 177 | 236 | 295 | 228 | 227 | 202 | 226 | 223 | 231 | 238 | 214 | 232 | 223 | 225 | 217 |
| 7 | 90 | 266 | 354 | 443 | 342 | 341 | 303 | 338 | 334 | 347 | 357 | 320 | 349 | 334 | 337 | 326 |
| 8 | 90 | 355 | 473 | 591 | 457 | 455 | 404 | 452 | 447 | 464 | 478 | 428 | 466 | 447 | 451 | 435 |
| 6 | 100 | 225 | 300 | 375 | 320 | 319 | 283 | 317 | 313 | 325 | 335 | 300 | 326 | 313 | 316 | 305 |
| 7 | 100 | 338 | 450 | 563 | 481 | 478 | 425 | 475 | 470 | 488 | 502 | 450 | 490 | 470 | 474 | 458 |
| 8 | 100 | 450 | 600 | 750 | 641 | 638 | 567 | 633 | 626 | 650 | 669 | 600 | 653 | 626 | 632 | 610 |
| 6 | 110 | 284 | 378 | 473 | 446 | 444 | 394 | 441 | 436 | 452 | 466 | 418 | 454 | 436 | 440 | 425 |
| 7 | 110 | 425 | 567 | 709 | 669 | 665 | 592 | 661 | 654 | 679 | 699 | 626 | 682 | 654 | 659 | 637 |
| 8 | 110 | 566 | 755 | 944 | 891 | 886 | 788 | 880 | 870 | 903 | 930 | 834 | 908 | 870 | 878 | 848 |
| 6 | 125 | 394 | 525 | 656 | 719 | 715 | 636 | 711 | 703 | 729 | 751 | 673 | 733 | 703 | 709 | 684 |
| 7 | 125 | 592 | 789 | 986 | 1081 | 1075 | 956 | 1068 | 1056 | 1096 | 1129 | 1012 | 1101 | 1056 | 1065 | 1029 |
| 8 | 125 | 789 | 1052 | 1315 | 1441 | 1433 | 1274 | 1424 | 1408 | 1462 | 1505 | 1349 | 1468 | 1408 | 1420 | 1372 |

¹ Production rates are based on a consensus of replies to a user survey.

Thin Paint or Rusted Thin Paint

Hard Coating

Medium Profile Range

SSPC-SP 6

Tables 3132

PC

| Operating Conditions | | Production Rate ft ² /hr of Blasting ¹ | | | | | | | | | | | | | | |
|----------------------|----------------|--|--------|------|-----------------------------|------|--------|------|--------------------------------|------------|--------|--------|--------------|---------|-------|-----|
| | | Typical Mineral Abrasive | | | Refinery & By-Product Grits | | | | Natural or Mined Grits & Sands | | | | Manufactured | | | |
| Nozzle Size | Pressure (psi) | -25% | Median | +25% | Copper | Coal | Nickel | Iron | Olivine | Staurolite | Garnet | Silica | Zircon | Alumina | Glass | |
| 6 | 90 | 89 | 118 | 148 | 114 | 114 | 101 | 113 | 111 | 116 | 119 | 107 | 116 | 111 | 112 | 109 |
| 7 | 90 | 133 | 177 | 221 | 171 | 170 | 151 | 169 | 167 | 174 | 179 | 160 | 174 | 167 | 169 | 163 |
| 8 | 90 | 177 | 236 | 295 | 228 | 227 | 202 | 226 | 223 | 231 | 238 | 214 | 232 | 223 | 225 | 217 |
| 6 | 100 | 113 | 150 | 188 | 160 | 159 | 142 | 158 | 157 | 163 | 167 | 150 | 163 | 157 | 158 | 153 |
| 7 | 100 | 169 | 225 | 281 | 240 | 239 | 213 | 238 | 235 | 244 | 251 | 225 | 245 | 235 | 237 | 229 |
| 8 | 100 | 225 | 300 | 375 | 320 | 319 | 283 | 317 | 313 | 325 | 335 | 300 | 326 | 313 | 316 | 305 |
| 6 | 110 | 142 | 189 | 236 | 223 | 222 | 197 | 220 | 218 | 226 | 233 | 209 | 227 | 218 | 220 | 212 |
| 7 | 110 | 212 | 283 | 354 | 334 | 332 | 295 | 330 | 326 | 339 | 349 | 313 | 340 | 326 | 329 | 318 |
| 8 | 110 | 283 | 377 | 471 | 445 | 442 | 393 | 440 | 435 | 451 | 464 | 416 | 453 | 435 | 438 | 423 |
| 6 | 125 | 197 | 263 | 329 | 360 | 358 | 319 | 356 | 352 | 365 | 376 | 337 | 367 | 352 | 355 | 343 |
| 7 | 125 | 296 | 394 | 493 | 540 | 537 | 477 | 533 | 527 | 547 | 564 | 505 | 550 | 527 | 532 | 514 |
| 8 | 125 | 395 | 526 | 658 | 720 | 717 | 637 | 712 | 704 | 731 | 752 | 675 | 734 | 704 | 710 | 686 |

¹ Production rates are based on a consensus of replies to a user survey.

Thin Paint or Rusted Thin Paint

Hard Coating

High Profile Range

SSPC-SP 6

Tables 3133

PC

| Operating Conditions | | Production Rate ft ² /hr of Blasting ¹ | | | | | | | | | | | | | | |
|----------------------|----------------|--|--------|------|-----------------------------|------|--------|------|--------------------------------|------------|--------|--------|--------------|---------|-------|------|
| | | Typical Mineral Abrasive | | | Refinery & By-Product Grits | | | | Natural or Mined Grits & Sands | | | | Manufactured | | | |
| Nozzle Size | Pressure (psi) | -25% | Median | +25% | Copper | Coal | Nickel | Iron | Olivine | Staurolite | Garnet | Silica | Zircon | Alumina | Glass | |
| 6 | 90 | 591 | 788 | 985 | 762 | 758 | 674 | 753 | 744 | 773 | 796 | 713 | 776 | 744 | 751 | 725 |
| 7 | 90 | 886 | 1181 | 1476 | 1142 | 1136 | 1010 | 1129 | 1116 | 1158 | 1193 | 1069 | 1163 | 1116 | 1125 | 1087 |
| 8 | 90 | 1181 | 1574 | 1968 | 1522 | 1514 | 1346 | 1504 | 1487 | 1544 | 1589 | 1425 | 1551 | 1487 | 1500 | 1449 |
| 6 | 100 | 750 | 1000 | 1250 | 1068 | 1063 | 944 | 1056 | 1043 | 1083 | 1115 | 1000 | 1088 | 1043 | 1053 | 1017 |
| 7 | 100 | 1125 | 1500 | 1875 | 1602 | 1594 | 1417 | 1583 | 1565 | 1625 | 1673 | 1500 | 1632 | 1565 | 1579 | 1525 |
| 8 | 100 | 1500 | 2000 | 2500 | 2136 | 2125 | 1889 | 2111 | 2087 | 2167 | 2231 | 2000 | 2176 | 2087 | 2105 | 2033 |
| 6 | 110 | 944 | 1258 | 1573 | 1484 | 1476 | 1312 | 1467 | 1450 | 1505 | 1550 | 1390 | 1512 | 1450 | 1463 | 1413 |
| 7 | 110 | 1416 | 1888 | 2360 | 2227 | 2216 | 1970 | 2201 | 2176 | 2259 | 2326 | 2086 | 2270 | 2176 | 2195 | 2120 |
| 8 | 110 | 1889 | 2518 | 3148 | 2970 | 2955 | 2627 | 2936 | 2902 | 3013 | 3102 | 2781 | 3027 | 2902 | 2928 | 2828 |
| 6 | 125 | 1315 | 1753 | 2191 | 2401 | 2389 | 2123 | 2373 | 2346 | 2435 | 2507 | 2248 | 2446 | 2346 | 2366 | 2286 |
| 7 | 125 | 1972 | 2629 | 3286 | 3601 | 3582 | 3184 | 3559 | 3518 | 3652 | 3761 | 3372 | 3669 | 3518 | 3549 | 3428 |
| 8 | 125 | 2630 | 3507 | 4384 | 4803 | 4779 | 4248 | 4747 | 4693 | 4872 | 5016 | 4497 | 4894 | 4693 | 4734 | 4572 |

¹ Production rates are based on a consensus of replies to a user survey.

Thin Paint or Rusted Thin Paint

Hard Coating

Low Profile Range

SSPC-SP 7

Tables 3141

PC

| Operating Conditions | | Production Rate ft ² /hr of Blasting ¹ | | | | | | | | | | | | | | |
|----------------------|----------------|--|--------|------|-----------------------------|------|--------|------|--------------------------------|------------|--------|--------|--------------|---------|-------|------|
| | | Typical Mineral Abrasive | | | Refinery & By-Product Grits | | | | Natural or Mined Grits & Sands | | | | Manufactured | | | |
| Nozzle Size | Pressure (psi) | -25% | Median | +25% | Copper | Coal | Nickel | Iron | Olivine | Staurolite | Garnet | Silica | Zircon | Alumina | Glass | |
| 6 | 90 | 173 | 231 | 289 | 223 | 222 | 198 | 221 | 218 | 227 | 233 | 209 | 228 | 218 | 220 | 213 |
| 7 | 90 | 253 | 337 | 421 | 326 | 324 | 288 | 322 | 318 | 331 | 340 | 305 | 332 | 318 | 321 | 310 |
| 8 | 90 | 345 | 460 | 575 | 445 | 442 | 393 | 440 | 435 | 451 | 464 | 416 | 453 | 435 | 438 | 423 |
| 6 | 100 | 220 | 293 | 366 | 313 | 311 | 277 | 309 | 306 | 317 | 327 | 293 | 319 | 306 | 308 | 298 |
| 7 | 100 | 321 | 428 | 535 | 457 | 455 | 404 | 452 | 447 | 464 | 477 | 428 | 466 | 447 | 451 | 435 |
| 8 | 100 | 439 | 585 | 731 | 625 | 622 | 553 | 618 | 610 | 634 | 653 | 585 | 637 | 610 | 616 | 595 |
| 6 | 110 | 275 | 367 | 459 | 433 | 431 | 383 | 428 | 423 | 439 | 452 | 405 | 441 | 423 | 427 | 412 |
| 7 | 110 | 404 | 538 | 673 | 635 | 631 | 561 | 627 | 620 | 644 | 663 | 594 | 647 | 620 | 626 | 604 |
| 8 | 110 | 553 | 737 | 921 | 869 | 865 | 769 | 859 | 850 | 882 | 908 | 814 | 886 | 850 | 857 | 828 |
| 6 | 125 | 385 | 513 | 641 | 703 | 699 | 621 | 694 | 686 | 713 | 734 | 658 | 716 | 686 | 693 | 669 |
| 7 | 125 | 562 | 749 | 936 | 1026 | 1021 | 907 | 1014 | 1002 | 1041 | 1071 | 961 | 1045 | 1002 | 1011 | 977 |
| 8 | 125 | 770 | 1026 | 1283 | 1405 | 1398 | 1243 | 1389 | 1373 | 1425 | 1468 | 1316 | 1432 | 1373 | 1385 | 1338 |

¹ Production rates are based on a consensus of replies to a user survey.

Thin Paint or Rusted Thin Paint

Soft Coating

Low Profile Range

SSPC-SP 5

Tables 3211 PC

| Operating Conditions | | Production Rate ft²/hr of Blasting ¹ | | | | | | | | | | | | | | |
|----------------------|----------------|---|--------|------|-----------------------------|------|--------|------|--------------------------------|------------|--------|--------|--------------|---------|-------|-----|
| | | Typical Mineral Abrasive | | | Refinery & By-Product Grits | | | | Natural or Mined Grits & Sands | | | | Manufactured | | | |
| Nozzle Size | Pressure (psi) | -25% | Median | +25% | Copper | Coal | Nickel | Iron | Olivine | Staurolite | Garnet | Silica | Zircon | Alumina | Glass | |
| 6 | 90 | 116 | 154 | 193 | 149 | 148 | 132 | 147 | 145 | 151 | 156 | 139 | 152 | 145 | 147 | 142 |
| 7 | 90 | 169 | 225 | 281 | 218 | 216 | 192 | 215 | 213 | 221 | 227 | 204 | 222 | 213 | 214 | 207 |
| 8 | 90 | 230 | 307 | 384 | 297 | 295 | 262 | 293 | 290 | 301 | 310 | 278 | 302 | 290 | 293 | 283 |
| 6 | 100 | 146 | 195 | 244 | 208 | 207 | 184 | 206 | 203 | 211 | 218 | 195 | 212 | 203 | 205 | 198 |
| 7 | 100 | 214 | 285 | 356 | 304 | 303 | 269 | 301 | 297 | 309 | 318 | 285 | 310 | 297 | 300 | 290 |
| 8 | 100 | 293 | 390 | 488 | 417 | 414 | 368 | 412 | 407 | 423 | 435 | 390 | 424 | 407 | 411 | 396 |
| 6 | 110 | 184 | 245 | 306 | 289 | 288 | 256 | 286 | 282 | 293 | 302 | 271 | 295 | 282 | 285 | 275 |
| 7 | 110 | 269 | 359 | 449 | 424 | 421 | 375 | 419 | 414 | 430 | 442 | 397 | 432 | 414 | 417 | 403 |
| 8 | 110 | 368 | 491 | 614 | 579 | 576 | 512 | 573 | 566 | 588 | 605 | 542 | 590 | 566 | 571 | 551 |
| 6 | 125 | 257 | 342 | 428 | 468 | 466 | 414 | 463 | 458 | 475 | 489 | 439 | 477 | 458 | 462 | 446 |
| 7 | 125 | 374 | 499 | 624 | 683 | 680 | 604 | 675 | 668 | 693 | 714 | 640 | 696 | 668 | 674 | 651 |
| 8 | 125 | 513 | 684 | 855 | 937 | 932 | 828 | 926 | 915 | 950 | 978 | 877 | 955 | 915 | 923 | 892 |

¹ Production rates are based on a consensus of replies to a user survey.

Thin Paint or Rusted Thin Paint

Soft Coating

Medium Profile Range

SSPC-SP 5

Tables 3212

PC

| Operating Conditions | | Production Rate ft²/hr of Blasting ¹ | | | | | | | | | | | | | | |
|----------------------|----------------|---|--------|------|-----------------------------|------|--------|------|--------------------------------|------------|--------|--------|--------------|---------|-------|-----|
| | | Typical Mineral Abrasive | | | Refinery & By-Product Grits | | | | Natural or Mined Grits & Sands | | | | Manufactured | | | |
| Nozzle Size | Pressure (psi) | -25% | Median | +25% | Copper | Coal | Nickel | Iron | Olivine | Staurolite | Garnet | Silica | Zircon | Alumina | Glass | |
| 6 | 90 | 58 | 77 | 96 | 74 | 74 | 66 | 74 | 73 | 76 | 78 | 70 | 76 | 73 | 73 | 71 |
| 7 | 90 | 84 | 112 | 140 | 108 | 108 | 96 | 107 | 106 | 110 | 113 | 101 | 110 | 106 | 107 | 103 |
| 8 | 90 | 115 | 153 | 191 | 148 | 147 | 131 | 146 | 145 | 150 | 154 | 139 | 151 | 145 | 146 | 141 |
| 6 | 100 | 74 | 98 | 123 | 105 | 104 | 93 | 103 | 102 | 106 | 109 | 98 | 107 | 102 | 103 | 100 |
| 7 | 100 | 107 | 143 | 179 | 153 | 152 | 135 | 151 | 149 | 155 | 160 | 143 | 156 | 149 | 151 | 145 |
| 8 | 100 | 146 | 195 | 244 | 208 | 207 | 184 | 206 | 203 | 211 | 217 | 195 | 212 | 203 | 205 | 198 |
| 6 | 110 | 91 | 122 | 152 | 144 | 143 | 127 | 142 | 141 | 146 | 150 | 135 | 147 | 141 | 142 | 137 |
| 7 | 110 | 134 | 179 | 224 | 211 | 210 | 187 | 209 | 206 | 214 | 221 | 198 | 215 | 206 | 208 | 201 |
| 8 | 110 | 185 | 246 | 308 | 290 | 289 | 257 | 287 | 284 | 294 | 303 | 272 | 296 | 284 | 286 | 276 |
| 6 | 125 | 128 | 171 | 214 | 234 | 233 | 207 | 231 | 229 | 238 | 245 | 219 | 239 | 229 | 231 | 223 |
| 7 | 125 | 188 | 250 | 313 | 342 | 341 | 303 | 338 | 335 | 347 | 358 | 321 | 349 | 335 | 337 | 326 |
| 8 | 125 | 257 | 342 | 428 | 468 | 466 | 414 | 463 | 458 | 475 | 489 | 439 | 477 | 458 | 462 | 446 |

¹ Production rates are based on a consensus of replies to a user survey.

Thin Paint or Rusted Thin Paint

Soft Coating

High Profile Range

SSPC-SP 5

Tables 3213

PC

| Operating Conditions | | Production Rate ft ² /hr of Blasting ¹ | | | | | | | | | | | | | | | |
|----------------------|----------------|--|--------|------|-----------------------------|------|--------|------|--------------------------------|------------|--------|--------|--------------|---------|-------|------|------------|
| Nozzle Size | Pressure (psi) | Typical Mineral Abrasive | | | Refinery & By-Product Grits | | | | Natural or Mined Grits & Sands | | | | Manufactured | | | | Steel Iron |
| | | -25% | Median | +25% | Copper | Coal | Nickel | Iron | Olivine | Staurolite | Garnet | Silica | Zircon | Alumina | Glass | | |
| 6 | 90 | 200 | 266 | 333 | 257 | 256 | 227 | 254 | 251 | 261 | 269 | 241 | 262 | 251 | 253 | 245 | |
| 7 | 90 | 279 | 372 | 465 | 360 | 358 | 318 | 355 | 351 | 365 | 376 | 337 | 366 | 351 | 354 | 342 | |
| 8 | 90 | 385 | 513 | 641 | 496 | 493 | 439 | 490 | 485 | 503 | 518 | 464 | 505 | 485 | 489 | 472 | |
| 6 | 100 | 254 | 338 | 423 | 361 | 359 | 319 | 357 | 353 | 366 | 377 | 338 | 368 | 353 | 356 | 344 | |
| 7 | 100 | 355 | 473 | 591 | 505 | 503 | 447 | 499 | 494 | 512 | 528 | 473 | 515 | 494 | 498 | 481 | |
| 8 | 100 | 490 | 653 | 816 | 697 | 694 | 617 | 689 | 681 | 707 | 728 | 653 | 711 | 681 | 687 | 664 | |
| 6 | 110 | 318 | 424 | 530 | 500 | 498 | 442 | 494 | 489 | 507 | 522 | 468 | 510 | 489 | 493 | 476 | |
| 7 | 110 | 446 | 595 | 744 | 702 | 698 | 621 | 694 | 686 | 712 | 733 | 657 | 715 | 686 | 692 | 668 | |
| 8 | 110 | 617 | 822 | 1028 | 970 | 965 | 858 | 958 | 947 | 984 | 1013 | 908 | 988 | 947 | 956 | 923 | |
| 6 | 125 | 444 | 592 | 740 | 811 | 807 | 717 | 801 | 792 | 822 | 847 | 759 | 826 | 792 | 799 | 772 | |
| 7 | 125 | 621 | 828 | 1035 | 1134 | 1128 | 1003 | 1121 | 1108 | 1150 | 1184 | 1062 | 1156 | 1108 | 1118 | 1080 | |
| 8 | 125 | 857 | 1143 | 1429 | 1565 | 1557 | 1384 | 1547 | 1530 | 1588 | 1635 | 1466 | 1595 | 1530 | 1543 | 1490 | |

¹ Production rates are based on a consensus of replies to a user survey.

Thin Paint or Rusted Thin Paint

Soft Coating

Low Profile Range

SSPC-SP 10

Tables 3221

PC

| Operating Conditions | | Production Rate ft ² /hr of Blasting ¹ | | | | | | | | | | | | | | | |
|----------------------|----------------|--|--------|------|-----------------------------|------|--------|------|--------------------------------|------------|--------|--------|--------------|---------|-------|-----|------------|
| Nozzle Size | Pressure (psi) | Typical Mineral Abrasive | | | Refinery & By-Product Grits | | | | Natural or Mined Grits & Sands | | | | Manufactured | | | | Steel Iron |
| | | -25% | Median | +25% | Copper | Coal | Nickel | Iron | Olivine | Staurolite | Garnet | Silica | Zircon | Alumina | Glass | | |
| 6 | 90 | 134 | 178 | 223 | 172 | 171 | 152 | 170 | 168 | 175 | 180 | 161 | 175 | 168 | 170 | 164 | |
| 7 | 90 | 186 | 248 | 310 | 240 | 239 | 212 | 237 | 234 | 243 | 250 | 225 | 244 | 234 | 236 | 228 | |
| 8 | 90 | 257 | 342 | 428 | 331 | 329 | 292 | 327 | 323 | 335 | 345 | 310 | 337 | 323 | 326 | 315 | |
| 6 | 100 | 169 | 225 | 281 | 240 | 239 | 213 | 238 | 235 | 244 | 251 | 225 | 245 | 235 | 237 | 229 | |
| 7 | 100 | 236 | 315 | 394 | 336 | 335 | 298 | 333 | 329 | 341 | 351 | 315 | 343 | 329 | 332 | 320 | |
| 8 | 100 | 326 | 435 | 544 | 465 | 462 | 411 | 459 | 454 | 471 | 485 | 435 | 473 | 454 | 458 | 442 | |
| 6 | 110 | 212 | 283 | 354 | 334 | 332 | 295 | 330 | 326 | 339 | 349 | 313 | 340 | 326 | 329 | 318 | |
| 7 | 110 | 297 | 396 | 495 | 467 | 465 | 413 | 462 | 456 | 474 | 488 | 437 | 476 | 456 | 460 | 445 | |
| 8 | 110 | 411 | 548 | 685 | 646 | 643 | 572 | 639 | 632 | 656 | 675 | 605 | 659 | 632 | 637 | 615 | |
| 6 | 125 | 296 | 395 | 494 | 541 | 538 | 478 | 535 | 529 | 549 | 565 | 507 | 551 | 529 | 533 | 515 | |
| 7 | 125 | 414 | 552 | 690 | 756 | 752 | 669 | 747 | 739 | 767 | 790 | 708 | 770 | 739 | 745 | 720 | |
| 8 | 125 | 572 | 762 | 953 | 1044 | 1038 | 923 | 1032 | 1020 | 1059 | 1090 | 977 | 1063 | 1020 | 1029 | 994 | |

¹ Production rates are based on a consensus of replies to a user survey.

Thin Paint or Rusted Thin Paint

Soft Coating

Medium Profile Range

SSPC-SP 10

Tables 3222

PC

| Operating Conditions | | Production Rate ft ² /hr of Blasting ¹ | | | | | | | | | | | | | | |
|----------------------|----------------|--|--------|------|-----------------------------|------|--------|------|--------------------------------|------------|--------|--------|--------------|---------|-------|------|
| | | Typical Mineral Abrasive | | | Refinery & By-Product Grits | | | | Natural or Mined Grits & Sands | | | | Manufactured | | | |
| Nozzle Size | Pressure (psi) | -25% | Median | +25% | Copper | Coal | Nickel | Iron | Olivine | Staurolite | Garnet | Silica | Zircon | Alumina | Glass | Iron |
| 6 | 90 | 67 | 89 | 111 | 86 | 86 | 76 | 85 | 84 | 87 | 90 | 81 | 88 | 84 | 85 | 82 |
| 7 | 90 | 93 | 124 | 155 | 120 | 119 | 106 | 118 | 117 | 122 | 125 | 112 | 122 | 117 | 118 | 114 |
| 8 | 90 | 128 | 171 | 214 | 165 | 164 | 146 | 163 | 162 | 168 | 173 | 155 | 168 | 162 | 163 | 157 |
| 6 | 100 | 85 | 113 | 141 | 121 | 120 | 107 | 119 | 118 | 122 | 126 | 113 | 123 | 118 | 119 | 115 |
| 7 | 100 | 119 | 158 | 198 | 169 | 168 | 149 | 167 | 165 | 171 | 176 | 158 | 172 | 165 | 166 | 161 |
| 8 | 100 | 164 | 218 | 273 | 233 | 232 | 206 | 230 | 227 | 236 | 243 | 218 | 237 | 227 | 229 | 222 |
| 6 | 110 | 106 | 141 | 176 | 166 | 165 | 147 | 164 | 163 | 169 | 174 | 156 | 169 | 163 | 164 | 158 |
| 7 | 110 | 149 | 198 | 248 | 234 | 232 | 207 | 231 | 228 | 237 | 244 | 219 | 238 | 228 | 230 | 222 |
| 8 | 110 | 206 | 274 | 343 | 323 | 322 | 286 | 319 | 316 | 328 | 338 | 303 | 329 | 316 | 319 | 308 |
| 6 | 125 | 148 | 197 | 246 | 270 | 268 | 239 | 267 | 264 | 274 | 282 | 253 | 275 | 264 | 266 | 257 |
| 7 | 125 | 207 | 276 | 345 | 378 | 376 | 334 | 374 | 369 | 383 | 395 | 354 | 385 | 369 | 373 | 360 |
| 8 | 125 | 286 | 381 | 476 | 522 | 519 | 461 | 516 | 510 | 529 | 545 | 489 | 532 | 510 | 514 | 497 |

¹ Production rates are based on a consensus of replies to a user survey.

Thin Paint or Rusted Thin Paint

Soft Coating

High Profile Range

SSPC-SP 10

Tables 3223

PC

| Operating Conditions | | Production Rate ft ² /hr of Blasting ¹ | | | | | | | | | | | | | | |
|----------------------|----------------|--|--------|------|-----------------------------|------|--------|------|--------------------------------|------------|--------|--------|--------------|---------|-------|------|
| | | Typical Mineral Abrasive | | | Refinery & By-Product Grits | | | | Natural or Mined Grits & Sands | | | | Manufactured | | | |
| Nozzle Size | Pressure (psi) | -25% | Median | +25% | Copper | Coal | Nickel | Iron | Olivine | Staurolite | Garnet | Silica | Zircon | Alumina | Glass | |
| 6 | 90 | 398 | 531 | 664 | 513 | 511 | 454 | 507 | 502 | 521 | 536 | 481 | 523 | 502 | 506 | 489 |
| 7 | 90 | 598 | 797 | 996 | 771 | 767 | 681 | 762 | 753 | 782 | 805 | 722 | 785 | 753 | 759 | 734 |
| 8 | 90 | 797 | 1063 | 1329 | 1028 | 1022 | 909 | 1016 | 1004 | 1043 | 1073 | 962 | 1047 | 1004 | 1013 | 978 |
| 6 | 100 | 506 | 675 | 844 | 721 | 717 | 638 | 713 | 704 | 731 | 753 | 675 | 735 | 704 | 711 | 686 |
| 7 | 100 | 760 | 1013 | 1266 | 1082 | 1076 | 957 | 1069 | 1057 | 1097 | 1130 | 1013 | 1102 | 1057 | 1066 | 1030 |
| 8 | 100 | 1013 | 1350 | 1688 | 1442 | 1434 | 1275 | 1425 | 1409 | 1463 | 1506 | 1350 | 1469 | 1409 | 1421 | 1373 |
| 6 | 110 | 638 | 851 | 1064 | 1004 | 999 | 888 | 992 | 981 | 1018 | 1048 | 940 | 1023 | 981 | 990 | 956 |
| 7 | 110 | 956 | 1275 | 1594 | 1504 | 1496 | 1330 | 1487 | 1470 | 1526 | 1571 | 1408 | 1533 | 1470 | 1483 | 1432 |
| 8 | 110 | 1274 | 1699 | 2124 | 2004 | 1994 | 1772 | 1981 | 1958 | 2033 | 2093 | 1877 | 2042 | 1958 | 1976 | 1908 |
| 6 | 125 | 887 | 1182 | 1478 | 1619 | 1611 | 1432 | 1600 | 1582 | 1642 | 1691 | 1516 | 1650 | 1582 | 1596 | 1541 |
| 7 | 125 | 1331 | 1774 | 2218 | 2430 | 2417 | 2149 | 2401 | 2374 | 2465 | 2538 | 2275 | 2476 | 2374 | 2395 | 2313 |
| 8 | 125 | 1775 | 2367 | 2959 | 3242 | 3225 | 2867 | 3204 | 3167 | 3288 | 3386 | 3036 | 3303 | 3167 | 3195 | 3086 |

¹ Production rates are based on a consensus of replies to a user survey.

Thin Paint or Rusted Thin Paint

Soft Coating

Low Profile Range

SSPC-SP 6

Tables 3231 PC

| Operating Conditions | | Production Rate ft²/hr of Blasting ¹ | | | | | | | | | | | | | | |
|----------------------|----------------|---|--------|------|-----------------------------|------|--------|------|--------------------------------|------------|--------|--------|--------------|---------|-------|------|
| | | Typical Mineral Abrasive | | | Refinery & By-Product Grits | | | | Natural or Mined Grits & Sands | | | | Manufactured | | | |
| Nozzle Size | Pressure (psi) | -25% | Median | +25% | Copper | Coal | Nickel | Iron | Olivine | Staurolite | Garnet | Silica | Zircon | Alumina | Glass | |
| 6 | 90 | 266 | 354 | 443 | 342 | 341 | 303 | 338 | 334 | 347 | 357 | 320 | 349 | 334 | 337 | 326 |
| 7 | 90 | 398 | 531 | 664 | 513 | 511 | 454 | 507 | 502 | 521 | 536 | 481 | 523 | 502 | 506 | 489 |
| 8 | 90 | 532 | 709 | 886 | 685 | 682 | 606 | 678 | 670 | 695 | 716 | 642 | 698 | 670 | 676 | 653 |
| 6 | 100 | 338 | 450 | 563 | 481 | 478 | 425 | 475 | 470 | 488 | 502 | 450 | 490 | 470 | 474 | 458 |
| 7 | 100 | 506 | 675 | 844 | 721 | 717 | 638 | 713 | 704 | 731 | 753 | 675 | 735 | 704 | 711 | 686 |
| 8 | 100 | 675 | 900 | 1125 | 961 | 956 | 850 | 950 | 939 | 975 | 1004 | 900 | 979 | 939 | 947 | 915 |
| 6 | 110 | 425 | 567 | 709 | 669 | 665 | 592 | 661 | 654 | 679 | 699 | 626 | 682 | 654 | 659 | 637 |
| 7 | 110 | 638 | 850 | 1063 | 1003 | 998 | 887 | 991 | 980 | 1017 | 1047 | 939 | 1022 | 980 | 988 | 955 |
| 8 | 110 | 849 | 1132 | 1415 | 1335 | 1329 | 1181 | 1320 | 1305 | 1355 | 1395 | 1250 | 1361 | 1305 | 1316 | 1271 |
| 6 | 125 | 591 | 788 | 985 | 1079 | 1074 | 954 | 1067 | 1054 | 1095 | 1127 | 1011 | 1100 | 1054 | 1064 | 1027 |
| 7 | 125 | 887 | 1183 | 1479 | 1620 | 1612 | 1433 | 1601 | 1583 | 1644 | 1692 | 1517 | 1651 | 1583 | 1597 | 1542 |
| 8 | 125 | 1184 | 1578 | 1973 | 2161 | 2150 | 1911 | 2136 | 2112 | 2192 | 2257 | 2024 | 2202 | 2112 | 2130 | 2057 |

¹ Production rates are based on a consensus of replies to a user survey.

Thin Paint or Rusted Thin Paint

Soft Coating

Medium Profile Range

SSPC-SP 6

Tables 3232 P C

| Operating Conditions | | Production Rate ft²/hr of Blasting ¹ | | | | | | | | | | | | | | |
|----------------------|----------------|---|--------|------|-----------------------------|------|--------|------|--------------------------------|------------|--------|--------|--------------|---------|-------|------|
| | | Typical Mineral Abrasive | | | Refinery & By-Product Grits | | | | Natural or Mined Grits & Sands | | | | Manufactured | | | |
| Nozzle Size | Pressure (psi) | -25% | Median | +25% | Copper | Coal | Nickel | Iron | Olivine | Staurolite | Garnet | Silica | Zircon | Alumina | Glass | |
| 6 | 90 | 133 | 177 | 221 | 171 | 170 | 151 | 169 | 167 | 174 | 179 | 160 | 174 | 167 | 169 | 163 |
| 7 | 90 | 200 | 266 | 333 | 257 | 256 | 227 | 254 | 251 | 261 | 269 | 241 | 262 | 251 | 253 | 245 |
| 8 | 90 | 266 | 354 | 443 | 342 | 341 | 303 | 338 | 334 | 347 | 357 | 320 | 349 | 334 | 337 | 326 |
| 6 | 100 | 169 | 225 | 281 | 240 | 239 | 213 | 238 | 235 | 244 | 251 | 225 | 245 | 235 | 237 | 229 |
| 7 | 100 | 254 | 338 | 423 | 361 | 359 | 319 | 357 | 353 | 366 | 377 | 338 | 368 | 353 | 356 | 344 |
| 8 | 100 | 338 | 450 | 563 | 481 | 478 | 425 | 475 | 470 | 487 | 502 | 450 | 490 | 470 | 474 | 458 |
| 6 | 110 | 213 | 284 | 355 | 335 | 333 | 296 | 331 | 327 | 340 | 350 | 314 | 341 | 327 | 330 | 319 |
| 7 | 110 | 319 | 425 | 531 | 501 | 499 | 443 | 496 | 490 | 509 | 524 | 469 | 511 | 490 | 494 | 477 |
| 8 | 110 | 425 | 566 | 708 | 668 | 664 | 590 | 660 | 652 | 677 | 697 | 625 | 680 | 652 | 658 | 636 |
| 6 | 125 | 296 | 394 | 493 | 540 | 537 | 477 | 533 | 527 | 547 | 564 | 505 | 550 | 527 | 532 | 514 |
| 7 | 125 | 443 | 591 | 739 | 809 | 805 | 716 | 800 | 791 | 821 | 845 | 758 | 825 | 791 | 798 | 771 |
| 8 | 125 | 592 | 789 | 986 | 1081 | 1075 | 956 | 1068 | 1056 | 1096 | 1129 | 1012 | 1101 | 1056 | 1065 | 1029 |

¹ Production rates are based on a consensus of replies to a user survey.

Thin Paint or Rusted Thin Paint

Soft Coating

High Profile Range

SSPC-SP 6

Tables

3233

PC

| Operating Conditions | | Production Rate ft ² /hr of Blasting ¹ | | | | | | | | | | | | | | |
|----------------------|----------------|--|--------|------|-----------------------------|------|--------|------|--------------------------------|------------|--------|--------|--------------|---------|-------|------|
| | | Typical Mineral Abrasive | | | Refinery & By-Product Grits | | | | Natural or Mined Grits & Sands | | | | Manufactured | | | |
| Nozzle Size | Pressure (psi) | -25% | Median | +25% | Copper | Coal | Nickel | Iron | Olivine | Staurolite | Garnet | Silica | Zircon | Alumina | Glass | |
| 6 | 90 | 591 | 788 | 985 | 762 | 758 | 674 | 753 | 744 | 773 | 796 | 713 | 776 | 744 | 751 | 725 |
| 7 | 90 | 886 | 1181 | 1476 | 1142 | 1136 | 1010 | 1129 | 1116 | 1158 | 1193 | 1069 | 1163 | 1116 | 1125 | 1087 |
| 8 | 90 | 1181 | 1574 | 1968 | 1522 | 1514 | 1346 | 1504 | 1487 | 1544 | 1589 | 1425 | 1551 | 1487 | 1500 | 1449 |
| 6 | 100 | 750 | 1000 | 1250 | 1068 | 1063 | 944 | 1056 | 1043 | 1083 | 1115 | 1000 | 1088 | 1043 | 1053 | 1017 |
| 7 | 100 | 1125 | 1500 | 1875 | 1602 | 1594 | 1417 | 1583 | 1565 | 1625 | 1673 | 1500 | 1632 | 1565 | 1579 | 1525 |
| 8 | 100 | 1500 | 2000 | 2500 | 2136 | 2125 | 1889 | 2111 | 2087 | 2167 | 2231 | 2000 | 2176 | 2087 | 2105 | 2033 |
| 6 | 110 | 944 | 1258 | 1573 | 1484 | 1476 | 1312 | 1467 | 1450 | 1505 | 1550 | 1390 | 1512 | 1450 | 1463 | 1413 |
| 7 | 110 | 1416 | 1888 | 2360 | 2227 | 2216 | 1970 | 2201 | 2176 | 2259 | 2326 | 2086 | 2270 | 2176 | 2195 | 2120 |
| 8 | 110 | 1889 | 2518 | 3148 | 2970 | 2955 | 2627 | 2936 | 2902 | 3013 | 3102 | 2781 | 3027 | 2902 | 2928 | 2828 |
| 6 | 125 | 1315 | 1753 | 2191 | 2401 | 2389 | 2123 | 2373 | 2346 | 2435 | 2507 | 2248 | 2446 | 2346 | 2366 | 2286 |
| 7 | 125 | 1972 | 2629 | 3286 | 3601 | 3582 | 3184 | 3559 | 3518 | 3652 | 3761 | 3372 | 3669 | 3518 | 3549 | 3428 |
| 8 | 125 | 2630 | 3507 | 4384 | 4803 | 4779 | 4248 | 4747 | 4693 | 4872 | 5016 | 4497 | 4894 | 4693 | 4734 | 4572 |

¹ Production rates are based on a consensus of replies to a user survey.

Thin Paint or Rusted Thin Paint

Soft Coating

Low Profile Range

SSPC-SP 7

Tables 3241

PC

| Operating Conditions | | Production Rate ft ² /hr of Blasting ¹ | | | | | | | | | | | | | | |
|----------------------|----------------|--|--------|------|-----------------------------|------|--------|------|--------------------------------|------------|--------|--------|--------------|---------|-------|------|
| | | Typical Mineral Abrasive | | | Refinery & By-Product Grits | | | | Natural or Mined Grits & Sands | | | | Manufactured | | | |
| Nozzle Size | Pressure (psi) | -25% | Median | +25% | Copper | Coal | Nickel | Iron | Olivine | Staurolite | Garnet | Silica | Zircon | Alumina | Glass | Iron |
| 6 | 90 | 80 | 106 | 133 | 102 | 102 | 91 | 101 | 100 | 104 | 107 | 96 | 104 | 100 | 101 | 98 |
| 6 | 100 | 101 | 135 | 169 | 144 | 143 | 128 | 143 | 141 | 146 | 151 | 135 | 147 | 141 | 142 | 137 |
| 6 | 110 | 128 | 171 | 214 | 202 | 201 | 178 | 199 | 197 | 205 | 211 | 189 | 206 | 197 | 199 | 192 |
| 6 | 125 | 177 | 236 | 295 | 323 | 322 | 286 | 319 | 316 | 328 | 338 | 303 | 329 | 316 | 319 | 308 |
| 7 | 90 | 116 | 154 | 193 | 149 | 148 | 132 | 147 | 145 | 151 | 156 | 139 | 152 | 145 | 147 | 142 |
| 7 | 100 | 146 | 195 | 244 | 208 | 207 | 184 | 206 | 203 | 211 | 218 | 195 | 212 | 203 | 205 | 198 |
| 7 | 110 | 184 | 245 | 306 | 289 | 288 | 256 | 286 | 282 | 293 | 302 | 271 | 295 | 282 | 285 | 275 |
| 7 | 125 | 257 | 342 | 428 | 468 | 466 | 414 | 463 | 458 | 475 | 489 | 439 | 477 | 458 | 462 | 446 |
| 8 | 90 | 160 | 213 | 266 | 206 | 205 | 182 | 204 | 201 | 209 | 215 | 193 | 210 | 201 | 203 | 196 |
| 8 | 100 | 203 | 270 | 338 | 288 | 287 | 255 | 285 | 282 | 293 | 301 | 270 | 294 | 282 | 284 | 275 |
| 8 | 110 | 255 | 340 | 425 | 401 | 399 | 355 | 396 | 392 | 407 | 419 | 376 | 409 | 392 | 395 | 382 |
| 8 | 125 | 356 | 474 | 593 | 649 | 646 | 574 | 642 | 634 | 659 | 678 | 608 | 662 | 634 | 640 | 618 |

¹ Production rates are based on a consensus of replies to a user survey.

Thick Paint, Heavy Millscale or Heavy Pitted Rust

Hard Coating

Low Profile Range

SSPC-SP 5

Tables 4111

PC

| Operating Conditions | | Production Rate ft ² /hr of Blasting ¹ | | | | | | | | | | | | | | |
|----------------------|----------------|--|--------|------|-----------------------------|------|--------|------|--------------------------------|------------|--------|--------|--------------|---------|-------|------|
| | | Typical Mineral Abrasive | | | Refinery & By-Product Grits | | | | Natural or Mined Grits & Sands | | | | Manufactured | | | |
| Nozzle Size | Pressure (psi) | -25% | Median | +25% | Copper | Coal | Nickel | Iron | Olivine | Staurolite | Garnet | Silica | Zircon | Alumina | Glass | Iron |
| 6 | 90 | 53 | 70 | 88 | 68 | 67 | 60 | 67 | 66 | 69 | 71 | 63 | 69 | 66 | 67 | 64 |
| 6 | 100 | 68 | 90 | 113 | 96 | 96 | 85 | 95 | 94 | 98 | 100 | 90 | 98 | 94 | 95 | 92 |
| 6 | 110 | 86 | 114 | 143 | 134 | 134 | 119 | 133 | 131 | 136 | 140 | 126 | 137 | 131 | 133 | 128 |
| 6 | 125 | 118 | 157 | 196 | 215 | 214 | 190 | 213 | 210 | 218 | 225 | 201 | 219 | 210 | 212 | 205 |
| 7 | 90 | 77 | 103 | 129 | 100 | 99 | 88 | 98 | 97 | 101 | 104 | 93 | 101 | 97 | 98 | 95 |
| 7 | 100 | 98 | 130 | 163 | 139 | 138 | 123 | 137 | 136 | 141 | 145 | 130 | 141 | 136 | 137 | 132 |
| 7 | 110 | 122 | 163 | 204 | 192 | 191 | 170 | 190 | 188 | 195 | 201 | 180 | 196 | 188 | 190 | 183 |
| 7 | 125 | 171 | 228 | 285 | 312 | 311 | 276 | 309 | 305 | 317 | 326 | 292 | 318 | 305 | 308 | 297 |
| 8 | 90 | 107 | 142 | 178 | 137 | 137 | 121 | 136 | 134 | 139 | 143 | 129 | 140 | 134 | 135 | 131 |
| 8 | 100 | 135 | 180 | 225 | 192 | 191 | 170 | 190 | 188 | 195 | 201 | 180 | 196 | 188 | 189 | 183 |
| 8 | 110 | 170 | 226 | 283 | 267 | 265 | 236 | 264 | 260 | 270 | 278 | 250 | 272 | 260 | 263 | 254 |
| 8 | 125 | 237 | 316 | 395 | 433 | 431 | 383 | 428 | 423 | 439 | 452 | 405 | 441 | 423 | 427 | 412 |

¹ Production rates are based on a consensus of replies to a user survey.

Thick Paint, Heavy Millscale or Heavy Pitted Rust

Hard Coating

Medium Profile Range

SSPC-SP 5

Tables 4112

PC

| Operating Conditions | | Production Rate ft ² /hr of Blasting ¹ | | | | | | | | | | | | | | |
|----------------------|----------------|--|--------|------|-----------------------------|------|--------|------|--------------------------------|------------|--------|--------|--------------|---------|-------|-----|
| | | Typical Mineral Abrasive | | | Refinery & By-Product Grits | | | | Natural or Mined Grits & Sands | | | | Manufactured | | | |
| Nozzle Size | Pressure (psi) | -25% | Median | +25% | Copper | Coal | Nickel | Iron | Olivine | Staurolite | Garnet | Silica | Zircon | Alumina | Glass | |
| 6 | 90 | 26 | 35 | 44 | 34 | 34 | 30 | 33 | 33 | 34 | 35 | 32 | 34 | 33 | 33 | 32 |
| 6 | 100 | 34 | 45 | 56 | 48 | 48 | 43 | 48 | 47 | 49 | 50 | 45 | 49 | 47 | 47 | 46 |
| 6 | 110 | 43 | 57 | 71 | 67 | 67 | 59 | 66 | 66 | 68 | 70 | 63 | 69 | 66 | 66 | 64 |
| 6 | 125 | 59 | 79 | 99 | 108 | 108 | 96 | 107 | 106 | 110 | 113 | 101 | 110 | 106 | 107 | 103 |
| 7 | 90 | 38 | 51 | 64 | 49 | 49 | 44 | 49 | 48 | 50 | 51 | 46 | 50 | 48 | 49 | 47 |
| 7 | 100 | 49 | 65 | 81 | 69 | 69 | 61 | 69 | 68 | 70 | 73 | 65 | 71 | 68 | 68 | 66 |
| 7 | 110 | 61 | 82 | 103 | 97 | 96 | 86 | 96 | 95 | 98 | 101 | 91 | 99 | 95 | 95 | 92 |
| 7 | 125 | 86 | 114 | 143 | 156 | 155 | 138 | 154 | 153 | 158 | 163 | 146 | 159 | 153 | 154 | 149 |
| 8 | 90 | 53 | 71 | 89 | 69 | 68 | 61 | 68 | 67 | 70 | 72 | 64 | 70 | 67 | 68 | 65 |
| 8 | 100 | 67 | 90 | 113 | 96 | 96 | 85 | 95 | 94 | 97 | 100 | 90 | 98 | 94 | 95 | 92 |
| 8 | 110 | 85 | 113 | 141 | 133 | 133 | 118 | 132 | 130 | 135 | 139 | 125 | 136 | 130 | 131 | 127 |
| 8 | 125 | 119 | 158 | 198 | 216 | 215 | 191 | 214 | 211 | 220 | 226 | 203 | 221 | 211 | 213 | 206 |

¹ Production rates are based on a consensus of replies to a user survey.

Thick Paint, Heavy Millscale or Heavy Pitted Rust

Hard Coating

High Profile Range

SSPC-SP 5

Tables 4113

PC

| Operating Conditions | | Production Rate ft ² /hr of Blasting ¹ | | | | | | | | | | | | | | |
|----------------------|----------------|--|--------|------|-----------------------------|------|--------|------|--------------------------------|------------|--------|--------|--------------|---------|-------|-----|
| | | Typical Mineral Abrasive | | | Refinery & By-Product Grits | | | | Natural or Mined Grits & Sands | | | | Manufactured | | | |
| Nozzle Size | Pressure (psi) | -25% | Median | +25% | Copper | Coal | Nickel | Iron | Olivine | Staurolite | Garnet | Silica | Zircon | Alumina | Glass | |
| 6 | 90 | 88 | 117 | 146 | 113 | 113 | 100 | 112 | 111 | 115 | 118 | 106 | 115 | 111 | 111 | 108 |
| 6 | 100 | 113 | 150 | 188 | 160 | 159 | 142 | 158 | 157 | 163 | 167 | 150 | 163 | 157 | 158 | 153 |
| 6 | 110 | 143 | 190 | 238 | 224 | 223 | 198 | 222 | 219 | 227 | 234 | 210 | 228 | 219 | 221 | 213 |
| 6 | 125 | 197 | 263 | 329 | 360 | 358 | 319 | 356 | 352 | 365 | 376 | 337 | 367 | 352 | 355 | 343 |
| 7 | 90 | 125 | 166 | 208 | 160 | 160 | 142 | 159 | 157 | 163 | 168 | 150 | 164 | 157 | 158 | 153 |
| 7 | 100 | 158 | 210 | 263 | 224 | 223 | 198 | 222 | 219 | 228 | 234 | 210 | 229 | 219 | 221 | 214 |
| 7 | 110 | 198 | 264 | 330 | 311 | 310 | 275 | 308 | 304 | 316 | 325 | 292 | 317 | 304 | 307 | 296 |
| 7 | 125 | 275 | 367 | 459 | 503 | 500 | 445 | 497 | 491 | 510 | 525 | 471 | 512 | 491 | 495 | 478 |
| 8 | 90 | 177 | 236 | 295 | 228 | 227 | 202 | 226 | 223 | 231 | 238 | 214 | 232 | 223 | 225 | 217 |
| 8 | 100 | 225 | 300 | 375 | 320 | 319 | 283 | 317 | 313 | 325 | 335 | 300 | 326 | 313 | 316 | 305 |
| 8 | 110 | 283 | 377 | 471 | 445 | 442 | 393 | 440 | 435 | 451 | 464 | 416 | 453 | 435 | 438 | 423 |
| 8 | 125 | 395 | 527 | 659 | 722 | 718 | 638 | 713 | 705 | 732 | 754 | 676 | 735 | 705 | 711 | 687 |

¹ Production rates are based on a consensus of replies to a user survey.

Thick Paint, Heavy Millscale or Heavy Pitted Rust

Hard Coating

Low Profile Range

SSPC-SP 10

Tables 4121

PC

| Operating Conditions | | Production Rate ft ² /hr of Blasting ¹ | | | | | | | | | | | | | | |
|----------------------|----------------|--|--------|------|-----------------------------|------|--------|------|--------------------------------|------------|--------|--------|--------------|---------|-------|------|
| | | Typical Mineral Abrasive | | | Refinery & By-Product Grits | | | | Natural or Mined Grits & Sands | | | | Manufactured | | | |
| Nozzle Size | Pressure (psi) | -25% | Median | +25% | Copper | Coal | Nickel | Iron | Olivine | Staurolite | Garnet | Silica | Zircon | Alumina | Glass | Iron |
| 6 | 90 | 58 | 78 | 97 | 75 | 75 | 67 | 75 | 74 | 76 | 79 | 71 | 77 | 74 | 74 | 72 |
| 6 | 100 | 75 | 100 | 125 | 107 | 106 | 94 | 106 | 104 | 108 | 112 | 100 | 109 | 104 | 105 | 102 |
| 6 | 110 | 95 | 126 | 158 | 149 | 148 | 131 | 147 | 145 | 151 | 155 | 139 | 151 | 145 | 147 | 142 |
| 6 | 125 | 132 | 176 | 220 | 241 | 240 | 213 | 238 | 236 | 245 | 252 | 226 | 246 | 236 | 238 | 229 |
| 7 | 90 | 83 | 111 | 139 | 107 | 107 | 95 | 106 | 105 | 109 | 112 | 100 | 109 | 105 | 106 | 102 |
| 7 | 100 | 105 | 140 | 175 | 150 | 149 | 132 | 148 | 146 | 152 | 156 | 140 | 152 | 146 | 147 | 142 |
| 7 | 110 | 132 | 176 | 220 | 208 | 207 | 184 | 205 | 203 | 211 | 217 | 194 | 212 | 203 | 205 | 198 |
| 7 | 125 | 184 | 245 | 306 | 336 | 334 | 297 | 332 | 328 | 340 | 350 | 314 | 342 | 328 | 331 | 319 |
| 8 | 90 | 119 | 158 | 198 | 153 | 152 | 135 | 151 | 149 | 155 | 160 | 143 | 156 | 149 | 151 | 145 |
| 8 | 100 | 150 | 200 | 250 | 214 | 213 | 189 | 211 | 209 | 217 | 223 | 200 | 218 | 209 | 211 | 203 |
| 8 | 110 | 189 | 252 | 315 | 297 | 296 | 263 | 294 | 290 | 302 | 310 | 278 | 303 | 290 | 293 | 283 |
| 8 | 125 | 263 | 351 | 439 | 481 | 478 | 425 | 475 | 470 | 488 | 502 | 450 | 490 | 470 | 474 | 458 |

¹ Production rates are based on a consensus of replies to a user survey.

Thick Paint, Heavy Millscale or Heavy Pitted Rust

Hard Coating

Medium Profile Range

SSPC-SP 10

Tables 4122

PC

| Operating Conditions | | Production Rate ft ² /hr of Blasting ¹ | | | | | | | | | | | | | | |
|----------------------|----------------|--|--------|------|-----------------------------|------|--------|------|--------------------------------|------------|--------|--------|--------------|---------|-------|------|
| | | Typical Mineral Abrasive | | | Refinery & By-Product Grits | | | | Natural or Mined Grits & Sands | | | | Manufactured | | | |
| Nozzle Size | Pressure (psi) | -25% | Median | +25% | Copper | Coal | Nickel | Iron | Olivine | Staurolite | Garnet | Silica | Zircon | Alumina | Glass | Iron |
| 6 | 90 | 29 | 39 | 49 | 38 | 38 | 33 | 37 | 37 | 38 | 39 | 35 | 38 | 37 | 37 | 36 |
| 6 | 100 | 38 | 50 | 63 | 53 | 53 | 47 | 53 | 52 | 54 | 56 | 50 | 54 | 52 | 53 | 51 |
| 6 | 110 | 47 | 63 | 79 | 74 | 74 | 66 | 73 | 73 | 75 | 78 | 70 | 76 | 73 | 73 | 71 |
| 6 | 125 | 66 | 88 | 110 | 121 | 120 | 107 | 119 | 118 | 122 | 126 | 113 | 123 | 118 | 119 | 115 |
| 7 | 90 | 41 | 55 | 69 | 53 | 53 | 47 | 53 | 52 | 54 | 56 | 50 | 54 | 52 | 52 | 51 |
| 7 | 100 | 53 | 70 | 88 | 75 | 74 | 66 | 74 | 73 | 76 | 78 | 70 | 76 | 73 | 74 | 71 |
| 7 | 110 | 66 | 88 | 110 | 104 | 103 | 92 | 103 | 101 | 105 | 108 | 97 | 106 | 101 | 102 | 99 |
| 7 | 125 | 92 | 122 | 153 | 167 | 166 | 148 | 165 | 163 | 169 | 175 | 156 | 170 | 163 | 165 | 159 |
| 8 | 90 | 59 | 79 | 99 | 76 | 76 | 68 | 75 | 75 | 77 | 80 | 72 | 78 | 75 | 75 | 73 |
| 8 | 100 | 75 | 100 | 125 | 107 | 106 | 94 | 106 | 104 | 108 | 112 | 100 | 109 | 104 | 105 | 102 |
| 8 | 110 | 95 | 126 | 158 | 149 | 148 | 131 | 147 | 145 | 151 | 155 | 139 | 151 | 145 | 147 | 142 |
| 8 | 125 | 132 | 176 | 220 | 241 | 240 | 213 | 238 | 236 | 245 | 252 | 226 | 246 | 236 | 238 | 229 |

¹ Production rates are based on a consensus of replies to a user survey.

Thick Paint, Heavy Millscale or Heavy Pitted Rust

Hard Coating

High Profile Range

SSPC-SP 10

Tables 4123

PC

| Operating Conditions | | Production Rate ft ² /hr of Blasting ¹ | | | | | | | | | | | | | | |
|----------------------|----------------|--|--------|------|-----------------------------|------|--------|------|--------------------------------|------------|--------|--------|--------------|---------|-------|------|
| | | Typical Mineral Abrasive | | | Refinery & By-Product Grits | | | | Natural or Mined Grits & Sands | | | | Manufactured | | | |
| Nozzle Size | Pressure (psi) | -25% | Median | +25% | Copper | Coal | Nickel | Iron | Olivine | Staurolite | Garnet | Silica | Zircon | Alumina | Glass | |
| 6 | 90 | 177 | 236 | 295 | 228 | 227 | 202 | 226 | 223 | 231 | 238 | 214 | 232 | 223 | 225 | 217 |
| 6 | 100 | 225 | 300 | 375 | 320 | 319 | 283 | 317 | 313 | 325 | 335 | 300 | 326 | 313 | 316 | 305 |
| 6 | 110 | 283 | 377 | 471 | 445 | 442 | 393 | 440 | 435 | 451 | 464 | 416 | 453 | 435 | 438 | 423 |
| 6 | 125 | 395 | 527 | 659 | 722 | 718 | 638 | 713 | 705 | 732 | 754 | 676 | 735 | 705 | 711 | 687 |
| 7 | 90 | 266 | 354 | 443 | 342 | 341 | 303 | 338 | 334 | 347 | 357 | 320 | 349 | 334 | 337 | 326 |
| 7 | 100 | 338 | 450 | 563 | 481 | 478 | 425 | 475 | 470 | 488 | 502 | 450 | 490 | 470 | 474 | 458 |
| 7 | 110 | 425 | 567 | 709 | 669 | 665 | 592 | 661 | 654 | 679 | 699 | 626 | 682 | 654 | 659 | 637 |
| 7 | 125 | 591 | 788 | 985 | 1079 | 1074 | 954 | 1067 | 1054 | 1095 | 1127 | 1011 | 1100 | 1054 | 1064 | 1027 |
| 8 | 90 | 355 | 473 | 591 | 457 | 455 | 404 | 452 | 447 | 464 | 478 | 428 | 466 | 447 | 451 | 435 |
| 8 | 100 | 450 | 600 | 750 | 641 | 638 | 567 | 633 | 626 | 650 | 669 | 600 | 653 | 626 | 632 | 610 |
| 8 | 110 | 566 | 755 | 944 | 891 | 886 | 788 | 880 | 870 | 903 | 930 | 834 | 908 | 870 | 878 | 848 |
| 8 | 125 | 788 | 1051 | 1314 | 1439 | 1432 | 1273 | 1423 | 1406 | 1460 | 1503 | 1348 | 1467 | 1406 | 1419 | 1370 |

¹ Production rates are based on a consensus of replies to a user survey.

Thick Paint, Heavy Millscale or Heavy Pitted Rust

Hard Coating

Low Profile Range

SSPC-SP 6

Tables 4131

PC

| Operating Conditions | | Production Rate ft ² /hr of Blasting ¹ | | | | | | | | | | | | | | |
|----------------------|----------------|--|--------|------|-----------------------------|------|--------|------|--------------------------------|------------|--------|--------|--------------|---------|-------|-----|
| | | Typical Mineral Abrasive | | | Refinery & By-Product Grits | | | | Natural or Mined Grits & Sands | | | | Manufactured | | | |
| Nozzle Size | Pressure (psi) | -25% | Median | +25% | Copper | Coal | Nickel | Iron | Olivine | Staurolite | Garnet | Silica | Zircon | Alumina | Glass | |
| 6 | 90 | 119 | 158 | 198 | 153 | 152 | 135 | 151 | 149 | 155 | 160 | 143 | 156 | 149 | 151 | 145 |
| 6 | 100 | 150 | 200 | 250 | 214 | 213 | 189 | 211 | 209 | 217 | 223 | 200 | 218 | 209 | 211 | 203 |
| 6 | 110 | 189 | 252 | 315 | 297 | 296 | 263 | 294 | 290 | 302 | 310 | 278 | 303 | 290 | 293 | 283 |
| 6 | 125 | 263 | 351 | 439 | 481 | 478 | 425 | 475 | 470 | 488 | 502 | 450 | 490 | 470 | 474 | 458 |
| 7 | 90 | 177 | 236 | 295 | 228 | 227 | 202 | 226 | 223 | 231 | 238 | 214 | 232 | 223 | 225 | 217 |
| 7 | 100 | 225 | 300 | 375 | 320 | 319 | 283 | 317 | 313 | 325 | 335 | 300 | 326 | 313 | 316 | 305 |
| 7 | 110 | 284 | 378 | 473 | 446 | 444 | 394 | 441 | 436 | 452 | 466 | 418 | 454 | 436 | 440 | 425 |
| 7 | 125 | 394 | 525 | 656 | 719 | 715 | 636 | 711 | 703 | 729 | 751 | 673 | 733 | 703 | 709 | 684 |
| 8 | 90 | 236 | 315 | 394 | 305 | 303 | 269 | 301 | 298 | 309 | 318 | 285 | 310 | 298 | 300 | 290 |
| 8 | 100 | 300 | 400 | 500 | 427 | 425 | 378 | 422 | 417 | 433 | 446 | 400 | 435 | 417 | 421 | 407 |
| 8 | 110 | 377 | 503 | 629 | 593 | 590 | 525 | 586 | 580 | 602 | 620 | 556 | 605 | 580 | 585 | 565 |
| 8 | 125 | 526 | 701 | 876 | 960 | 955 | 849 | 949 | 938 | 974 | 1003 | 899 | 978 | 938 | 946 | 914 |

¹ Production rates are based on a consensus of replies to a user survey.

Thick Paint, Heavy Millscale or Heavy Pitted Rust

Hard Coating

Medium Profile Range

SSPC-SP 6

Tables 4132

PC

| Operating Conditions | | Production Rate ft ² /hr of Blasting ¹ | | | | | | | | | | | | | | |
|----------------------|----------------|--|--------|------|-----------------------------|------|--------|------|--------------------------------|------------|--------|--------|--------------|---------|-------|------|
| | | Typical Mineral Abrasive | | | Refinery & By-Product Grits | | | | Natural or Mined Grits & Sands | | | | Manufactured | | | |
| Nozzle Size | Pressure (psi) | -25% | Median | +25% | Copper | Coal | Nickel | Iron | Olivine | Staurolite | Garnet | Silica | Zircon | Alumina | Glass | Iron |
| 6 | 90 | 59 | 79 | 99 | 76 | 76 | 68 | 75 | 75 | 77 | 80 | 72 | 78 | 75 | 75 | 73 |
| 6 | 100 | 75 | 100 | 125 | 107 | 106 | 94 | 106 | 104 | 108 | 112 | 100 | 109 | 104 | 105 | 102 |
| 6 | 110 | 95 | 126 | 158 | 149 | 148 | 131 | 147 | 145 | 151 | 155 | 139 | 151 | 145 | 147 | 142 |
| 6 | 125 | 132 | 176 | 220 | 241 | 240 | 213 | 238 | 236 | 245 | 252 | 226 | 246 | 236 | 238 | 229 |
| 7 | 90 | 89 | 118 | 148 | 114 | 114 | 101 | 113 | 111 | 116 | 119 | 107 | 116 | 111 | 112 | 109 |
| 7 | 100 | 113 | 150 | 188 | 160 | 159 | 142 | 158 | 157 | 163 | 167 | 150 | 163 | 157 | 158 | 153 |
| 7 | 110 | 142 | 189 | 236 | 223 | 222 | 197 | 220 | 218 | 226 | 233 | 209 | 227 | 218 | 220 | 212 |
| 7 | 125 | 197 | 263 | 329 | 360 | 358 | 319 | 356 | 352 | 365 | 376 | 337 | 367 | 352 | 355 | 343 |
| 8 | 90 | 119 | 158 | 198 | 153 | 152 | 135 | 151 | 149 | 155 | 160 | 143 | 156 | 149 | 151 | 145 |
| 8 | 100 | 150 | 200 | 250 | 214 | 213 | 189 | 211 | 209 | 217 | 223 | 200 | 218 | 209 | 211 | 203 |
| 8 | 110 | 189 | 252 | 315 | 297 | 296 | 263 | 294 | 290 | 302 | 310 | 278 | 303 | 290 | 293 | 283 |
| 8 | 125 | 263 | 350 | 438 | 479 | 477 | 424 | 474 | 468 | 486 | 501 | 449 | 488 | 468 | 472 | 456 |

¹ Production rates are based on a consensus of replies to a user survey.

Thick Paint, Heavy Millscale or Heavy Pitted Rust

Hard Coating

High Profile Range

SSPC-SP 6

Tables 4133

PC

| Operating Conditions | | Production Rate ft ² /hr of Blasting ¹ | | | | | | | | | | | | | | |
|----------------------|----------------|--|--------|------|-----------------------------|------|--------|------|--------------------------------|------------|--------|--------|--------------|---------|-------|------|
| | | Typical Mineral Abrasive | | | Refinery & By-Product Grits | | | | Natural or Mined Grits & Sands | | | | Manufactured | | | |
| Nozzle Size | Pressure (psi) | -25% | Median | +25% | Copper | Coal | Nickel | Iron | Olivine | Staurolite | Garnet | Silica | Zircon | Alumina | Glass | |
| 6 | 90 | 591 | 788 | 985 | 762 | 758 | 674 | 753 | 744 | 773 | 796 | 713 | 776 | 744 | 751 | 725 |
| 7 | 90 | 886 | 1181 | 1476 | 1142 | 1136 | 1010 | 1129 | 1116 | 1158 | 1193 | 1069 | 1163 | 1116 | 1125 | 1087 |
| 8 | 90 | 1181 | 1574 | 1968 | 1522 | 1514 | 1346 | 1504 | 1487 | 1544 | 1589 | 1425 | 1551 | 1487 | 1500 | 1449 |
| 6 | 100 | 750 | 1000 | 1250 | 1068 | 1063 | 944 | 1056 | 1043 | 1083 | 1115 | 1000 | 1088 | 1043 | 1053 | 1017 |
| 7 | 100 | 1125 | 1500 | 1875 | 1602 | 1594 | 1417 | 1583 | 1565 | 1625 | 1673 | 1500 | 1632 | 1565 | 1579 | 1525 |
| 8 | 100 | 1500 | 2000 | 2500 | 2136 | 2125 | 1889 | 2111 | 2087 | 2167 | 2231 | 2000 | 2176 | 2087 | 2105 | 2033 |
| 6 | 110 | 944 | 1258 | 1573 | 1484 | 1476 | 1312 | 1467 | 1450 | 1505 | 1550 | 1390 | 1512 | 1450 | 1463 | 1413 |
| 7 | 110 | 1416 | 1888 | 2360 | 2227 | 2216 | 1970 | 2201 | 2176 | 2259 | 2326 | 2086 | 2270 | 2176 | 2195 | 2120 |
| 8 | 110 | 1889 | 2518 | 3148 | 2970 | 2955 | 2627 | 2936 | 2902 | 3013 | 3102 | 2781 | 3027 | 2902 | 2928 | 2828 |
| 6 | 125 | 1315 | 1753 | 2191 | 2401 | 2389 | 2123 | 2373 | 2346 | 2435 | 2507 | 2248 | 2446 | 2346 | 2366 | 2286 |
| 7 | 125 | 1972 | 2629 | 3286 | 3601 | 3582 | 3184 | 3559 | 3518 | 3652 | 3761 | 3372 | 3669 | 3518 | 3549 | 3428 |
| 8 | 125 | 2630 | 3507 | 4384 | 4803 | 4779 | 4248 | 4747 | 4693 | 4872 | 5016 | 4497 | 4894 | 4693 | 4734 | 4572 |

¹ Production rates are based on a consensus of replies to a user survey.

Thick Paint, Heavy Millscale or Heavy Pitted Rust

Hard Coating

Low Profile Range

SSPC-SP 7

Tables 4141

PC

| Operating Conditions | | Production Rate ft ² /hr of Blasting ¹ | | | | | | | | | | | | | | |
|----------------------|----------------|--|--------|------|-----------------------------|------|--------|------|--------------------------------|------------|--------|--------|--------------|---------|-------|-----|
| | | Typical Mineral Abrasive | | | Refinery & By-Product Grits | | | | Natural or Mined Grits & Sands | | | | Manufactured | | | |
| Nozzle Size | Pressure (psi) | -25% | Median | +25% | Copper | Coal | Nickel | Iron | Olivine | Staurolite | Garnet | Silica | Zircon | Alumina | Glass | |
| 6 | 90 | 119 | 159 | 199 | 154 | 153 | 136 | 152 | 150 | 156 | 161 | 144 | 157 | 150 | 152 | 146 |
| 6 | 100 | 152 | 203 | 254 | 217 | 216 | 192 | 214 | 212 | 220 | 226 | 203 | 221 | 212 | 214 | 206 |
| 6 | 110 | 192 | 256 | 320 | 302 | 300 | 267 | 298 | 295 | 306 | 315 | 283 | 308 | 295 | 298 | 287 |
| 6 | 125 | 266 | 354 | 443 | 485 | 482 | 429 | 479 | 474 | 492 | 506 | 454 | 494 | 474 | 478 | 462 |
| 7 | 90 | 173 | 231 | 289 | 223 | 222 | 198 | 221 | 218 | 227 | 233 | 209 | 228 | 218 | 220 | 213 |
| 7 | 100 | 220 | 293 | 366 | 313 | 311 | 277 | 309 | 306 | 317 | 327 | 293 | 319 | 306 | 308 | 298 |
| 7 | 110 | 275 | 367 | 459 | 433 | 431 | 383 | 428 | 423 | 439 | 452 | 405 | 441 | 423 | 427 | 412 |
| 7 | 125 | 385 | 513 | 641 | 703 | 699 | 621 | 694 | 686 | 713 | 734 | 658 | 716 | 686 | 693 | 669 |
| 8 | 90 | 239 | 319 | 399 | 308 | 307 | 273 | 305 | 301 | 313 | 322 | 289 | 314 | 301 | 304 | 294 |
| 8 | 100 | 304 | 405 | 506 | 433 | 430 | 383 | 428 | 423 | 439 | 452 | 405 | 441 | 423 | 426 | 412 |
| 8 | 110 | 382 | 509 | 636 | 600 | 597 | 531 | 593 | 587 | 609 | 627 | 562 | 612 | 587 | 592 | 572 |
| 8 | 125 | 533 | 710 | 888 | 972 | 967 | 860 | 961 | 950 | 986 | 1016 | 911 | 991 | 950 | 958 | 926 |

¹ Production rates are based on a consensus of replies to a user survey.

Thick Paint, Heavy Millscale or Heavy Pitted Rust

Soft Coating

Low Profile Range

SSPC-SP 5

Tables 4211

PC

| Operating Conditions | | Production Rate ft ² /hr of Blasting ¹ | | | | | | | | | | | | | | |
|----------------------|----------------|--|--------|------|-----------------------------|------|--------|------|--------------------------------|------------|--------|--------|--------------|---------|-------|------|
| | | Typical Mineral Abrasive | | | Refinery & By-Product Grits | | | | Natural or Mined Grits & Sands | | | | Manufactured | | | |
| Nozzle Size | Pressure (psi) | -25% | Median | +25% | Copper | Coal | Nickel | Iron | Olivine | Staurolite | Garnet | Silica | Zircon | Alumina | Glass | Iron |
| 6 | 90 | 80 | 106 | 133 | 102 | 102 | 91 | 101 | 100 | 104 | 107 | 96 | 104 | 100 | 101 | 98 |
| 6 | 100 | 101 | 135 | 169 | 144 | 143 | 128 | 143 | 141 | 146 | 151 | 135 | 147 | 141 | 142 | 137 |
| 6 | 110 | 128 | 171 | 214 | 202 | 201 | 178 | 199 | 197 | 205 | 211 | 189 | 206 | 197 | 199 | 192 |
| 6 | 125 | 177 | 236 | 295 | 323 | 322 | 286 | 319 | 316 | 328 | 338 | 303 | 329 | 316 | 319 | 308 |
| 7 | 90 | 116 | 154 | 193 | 149 | 148 | 132 | 147 | 145 | 151 | 156 | 139 | 152 | 145 | 147 | 142 |
| 7 | 100 | 146 | 195 | 244 | 208 | 207 | 184 | 206 | 203 | 211 | 218 | 195 | 212 | 203 | 205 | 198 |
| 7 | 110 | 184 | 245 | 306 | 289 | 288 | 256 | 286 | 282 | 293 | 302 | 271 | 295 | 282 | 285 | 275 |
| 7 | 125 | 257 | 342 | 428 | 468 | 466 | 414 | 463 | 458 | 475 | 489 | 439 | 477 | 458 | 462 | 446 |
| 8 | 90 | 160 | 213 | 266 | 206 | 205 | 182 | 204 | 201 | 209 | 215 | 193 | 210 | 201 | 203 | 196 |
| 8 | 100 | 203 | 270 | 338 | 288 | 287 | 255 | 285 | 282 | 293 | 301 | 270 | 294 | 282 | 284 | 275 |
| 8 | 110 | 255 | 340 | 425 | 401 | 399 | 355 | 396 | 392 | 407 | 419 | 376 | 409 | 392 | 395 | 382 |
| 8 | 125 | 356 | 474 | 593 | 649 | 646 | 574 | 642 | 634 | 659 | 678 | 608 | 662 | 634 | 640 | 618 |

¹ Production rates are based on a consensus of replies to a user survey.

Thick Paint, Heavy Millscale or Heavy Pitted Rust

Soft Coating

Medium Profile Range

SSPC-SP 5

Tables 4212

PC

| Operating Conditions | | Production Rate ft ² /hr of Blasting ¹ | | | | | | | | | | | | | | |
|----------------------|----------------|--|--------|------|-----------------------------|------|--------|------|--------------------------------|------------|--------|--------|--------------|---------|-------|-----|
| | | Typical Mineral Abrasive | | | Refinery & By-Product Grits | | | | Natural or Mined Grits & Sands | | | | Manufactured | | | |
| Nozzle Size | Pressure (psi) | -25% | Median | +25% | Copper | Coal | Nickel | Iron | Olivine | Staurolite | Garnet | Silica | Zircon | Alumina | Glass | |
| 6 | 90 | 40 | 53 | 66 | 51 | 51 | 45 | 51 | 50 | 52 | 54 | 48 | 52 | 50 | 51 | 49 |
| 6 | 100 | 51 | 68 | 85 | 73 | 72 | 64 | 72 | 71 | 74 | 76 | 68 | 74 | 71 | 72 | 69 |
| 6 | 110 | 64 | 85 | 106 | 100 | 100 | 89 | 99 | 98 | 102 | 105 | 94 | 102 | 98 | 99 | 95 |
| 6 | 125 | 89 | 118 | 148 | 162 | 161 | 143 | 160 | 158 | 164 | 169 | 151 | 165 | 158 | 159 | 154 |
| 7 | 90 | 58 | 77 | 96 | 74 | 74 | 66 | 74 | 73 | 76 | 78 | 70 | 76 | 73 | 73 | 71 |
| 7 | 100 | 74 | 98 | 123 | 105 | 104 | 93 | 103 | 102 | 106 | 109 | 98 | 107 | 102 | 103 | 100 |
| 7 | 110 | 92 | 122 | 153 | 144 | 143 | 127 | 142 | 141 | 146 | 150 | 135 | 147 | 141 | 142 | 137 |
| 7 | 125 | 128 | 171 | 214 | 234 | 233 | 207 | 231 | 229 | 238 | 245 | 219 | 239 | 229 | 231 | 223 |
| 8 | 90 | 80 | 106 | 133 | 102 | 102 | 91 | 101 | 100 | 104 | 107 | 96 | 104 | 100 | 101 | 98 |
| 8 | 100 | 101 | 135 | 169 | 144 | 143 | 128 | 143 | 141 | 146 | 151 | 135 | 147 | 141 | 142 | 137 |
| 8 | 110 | 128 | 170 | 213 | 201 | 200 | 177 | 198 | 196 | 203 | 209 | 188 | 204 | 196 | 198 | 191 |
| 8 | 125 | 178 | 237 | 296 | 325 | 323 | 287 | 321 | 317 | 329 | 339 | 304 | 331 | 317 | 320 | 309 |

¹ Production rates are based on a consensus of replies to a user survey.

Thick Paint, Heavy Millscale or Heavy Pitted Rust

Soft Coating

High Profile Range

SSPC-SP 5

Tables 4213

PC

| Operating Conditions | | Production Rate ft ² /hr of Blasting ¹ | | | | | | | | | | | | | | |
|----------------------|----------------|--|--------|------|-----------------------------|------|--------|------|--------------------------------|------------|--------|--------|--------------|---------|-------|------|
| | | Typical Mineral Abrasive | | | Refinery & By-Product Grits | | | | Natural or Mined Grits & Sands | | | | Manufactured | | | |
| Nozzle Size | Pressure (psi) | -25% | Median | +25% | Copper | Coal | Nickel | Iron | Olivine | Staurolite | Garnet | Silica | Zircon | Alumina | Glass | |
| 6 | 90 | 132 | 176 | 220 | 170 | 169 | 150 | 168 | 166 | 173 | 178 | 159 | 173 | 166 | 168 | 162 |
| 6 | 100 | 169 | 225 | 281 | 240 | 239 | 213 | 238 | 235 | 244 | 251 | 225 | 245 | 235 | 237 | 229 |
| 6 | 110 | 213 | 284 | 355 | 335 | 333 | 296 | 331 | 327 | 340 | 350 | 314 | 341 | 327 | 330 | 319 |
| 6 | 125 | 296 | 395 | 494 | 541 | 538 | 478 | 535 | 529 | 549 | 565 | 507 | 551 | 529 | 533 | 515 |
| 7 | 90 | 187 | 249 | 311 | 241 | 240 | 213 | 238 | 235 | 244 | 251 | 225 | 245 | 235 | 237 | 229 |
| 7 | 100 | 236 | 315 | 394 | 336 | 335 | 298 | 333 | 329 | 341 | 351 | 315 | 343 | 329 | 332 | 320 |
| 7 | 110 | 297 | 396 | 495 | 467 | 465 | 413 | 462 | 456 | 474 | 488 | 437 | 476 | 456 | 460 | 445 |
| 7 | 125 | 413 | 551 | 689 | 755 | 751 | 667 | 746 | 737 | 766 | 788 | 707 | 769 | 737 | 744 | 718 |
| 8 | 90 | 266 | 354 | 443 | 342 | 341 | 303 | 338 | 334 | 347 | 357 | 320 | 349 | 334 | 337 | 326 |
| 8 | 100 | 338 | 450 | 563 | 481 | 478 | 425 | 475 | 470 | 487 | 502 | 450 | 490 | 470 | 474 | 458 |
| 8 | 110 | 425 | 566 | 708 | 668 | 664 | 590 | 660 | 652 | 677 | 697 | 625 | 680 | 652 | 658 | 636 |
| 8 | 125 | 593 | 790 | 988 | 1082 | 1076 | 957 | 1069 | 1057 | 1098 | 1130 | 1013 | 1103 | 1057 | 1066 | 1030 |

¹ Production rates are based on a consensus of replies to a user survey.

Thick Paint, Heavy Millscale or Heavy Pitted Rust

Soft Coating

Low Profile Range

SSPC-SP 10

Tables 4221

PC

| Operating Conditions | | Production Rate ft²/hr of Blasting ¹ | | | | | | | | | | | | | | |
|----------------------|----------------|---|--------|------|-----------------------------|------|--------|------|--------------------------------|------------|--------|--------|--------------|---------|-------|-----|
| | | Typical Mineral Abrasive | | | Refinery & By-Product Grits | | | | Natural or Mined Grits & Sands | | | | Manufactured | | | |
| Nozzle Size | Pressure (psi) | -25% | Median | +25% | Copper | Coal | Nickel | Iron | Olivine | Staurolite | Garnet | Silica | Zircon | Alumina | Glass | |
| 6 | 90 | 88 | 117 | 146 | 113 | 113 | 100 | 112 | 111 | 115 | 118 | 106 | 115 | 111 | 111 | 108 |
| 6 | 100 | 113 | 150 | 188 | 160 | 159 | 142 | 158 | 157 | 163 | 167 | 150 | 163 | 157 | 158 | 153 |
| 6 | 110 | 143 | 190 | 238 | 224 | 223 | 198 | 222 | 219 | 227 | 234 | 210 | 228 | 219 | 221 | 213 |
| 6 | 125 | 197 | 263 | 329 | 360 | 358 | 319 | 356 | 352 | 365 | 376 | 337 | 367 | 352 | 355 | 343 |
| 7 | 90 | 125 | 166 | 208 | 160 | 160 | 142 | 159 | 157 | 163 | 168 | 150 | 164 | 157 | 158 | 153 |
| 7 | 100 | 158 | 210 | 263 | 224 | 223 | 198 | 222 | 219 | 228 | 234 | 210 | 229 | 219 | 221 | 214 |
| 7 | 110 | 198 | 264 | 330 | 311 | 310 | 275 | 308 | 304 | 316 | 325 | 292 | 317 | 304 | 307 | 296 |
| 7 | 125 | 275 | 367 | 459 | 503 | 500 | 445 | 497 | 491 | 510 | 525 | 471 | 512 | 491 | 495 | 478 |
| 8 | 90 | 177 | 236 | 295 | 228 | 227 | 202 | 226 | 223 | 231 | 238 | 214 | 232 | 223 | 225 | 217 |
| 8 | 100 | 225 | 300 | 375 | 320 | 319 | 283 | 317 | 313 | 325 | 335 | 300 | 326 | 313 | 316 | 305 |
| 8 | 110 | 283 | 377 | 471 | 445 | 442 | 393 | 440 | 435 | 451 | 464 | 416 | 453 | 435 | 438 | 423 |
| 8 | 125 | 395 | 527 | 659 | 722 | 718 | 638 | 713 | 705 | 732 | 754 | 676 | 735 | 705 | 711 | 687 |

¹ Production rates are based on a consensus of replies to a user survey.

Thick Paint, Heavy Millscale or Heavy Pitted Rust

Soft Coating

Medium Profile Range

SSPC-SP 10

Tables 4222

PC

| Operating Conditions | | Production Rate ft ² /hr of Blasting ¹ | | | | | | | | | | | | | | |
|----------------------|----------------|--|--------|------|-----------------------------|------|--------|------|--------------------------------|------------|--------|--------|--------------|---------|-------|------|
| | | Typical Mineral Abrasive | | | Refinery & By-Product Grits | | | | Natural or Mined Grits & Sands | | | | Manufactured | | | |
| Nozzle Size | Pressure (psi) | -25% | Median | +25% | Copper | Coal | Nickel | Iron | Olivine | Staurolite | Garnet | Silica | Zircon | Alumina | Glass | Iron |
| 6 | 90 | 44 | 59 | 74 | 57 | 57 | 50 | 56 | 56 | 58 | 60 | 53 | 58 | 56 | 56 | 54 |
| 6 | 100 | 56 | 75 | 94 | 80 | 80 | 71 | 79 | 78 | 81 | 84 | 75 | 82 | 78 | 79 | 76 |
| 6 | 110 | 71 | 95 | 119 | 112 | 111 | 99 | 111 | 110 | 114 | 117 | 105 | 114 | 110 | 110 | 107 |
| 6 | 125 | 99 | 132 | 165 | 181 | 180 | 160 | 179 | 177 | 183 | 189 | 169 | 184 | 177 | 178 | 172 |
| 7 | 90 | 62 | 83 | 104 | 80 | 80 | 71 | 79 | 78 | 81 | 84 | 75 | 82 | 78 | 79 | 76 |
| 7 | 100 | 79 | 105 | 131 | 112 | 112 | 99 | 111 | 110 | 114 | 117 | 105 | 114 | 110 | 111 | 107 |
| 7 | 110 | 99 | 132 | 165 | 156 | 155 | 138 | 154 | 152 | 158 | 163 | 146 | 159 | 152 | 153 | 148 |
| 7 | 125 | 138 | 184 | 230 | 252 | 251 | 223 | 249 | 246 | 256 | 263 | 236 | 257 | 246 | 248 | 240 |
| 8 | 90 | 89 | 118 | 148 | 114 | 114 | 101 | 113 | 111 | 116 | 119 | 107 | 116 | 111 | 112 | 109 |
| 8 | 100 | 113 | 150 | 188 | 160 | 159 | 142 | 158 | 157 | 163 | 167 | 150 | 163 | 157 | 158 | 153 |
| 8 | 110 | 142 | 189 | 236 | 223 | 222 | 197 | 220 | 218 | 226 | 233 | 209 | 227 | 218 | 220 | 212 |
| 8 | 125 | 197 | 263 | 329 | 360 | 358 | 319 | 356 | 352 | 365 | 376 | 337 | 367 | 352 | 355 | 343 |

¹ Production rates are based on a consensus of replies to a user survey.

Thick Paint, Heavy Millscale or Heavy Pitted Rust

Soft Coating

High Profile Range

SSPC-SP 10

Tables 4223

PC

| Operating Conditions | | Production Rate ft²/hr of Blasting ¹ | | | | | | | | | | | | | | |
|----------------------|----------------|---|--------|------|-----------------------------|------|--------|------|--------------------------------|------------|--------|--------|--------------|---------|-------|------|
| | | Typical Mineral Abrasive | | | Refinery & By-Product Grits | | | | Natural or Mined Grits & Sands | | | | Manufactured | | | |
| Nozzle Size | Pressure (psi) | -25% | Median | +25% | Copper | Coal | Nickel | Iron | Olivine | Staurolite | Garnet | Silica | Zircon | Alumina | Glass | |
| 6 | 90 | 266 | 354 | 443 | 342 | 341 | 303 | 338 | 334 | 347 | 357 | 320 | 349 | 334 | 337 | 326 |
| 6 | 100 | 338 | 450 | 563 | 481 | 478 | 425 | 475 | 470 | 488 | 502 | 450 | 490 | 470 | 474 | 458 |
| 6 | 110 | 425 | 566 | 708 | 668 | 664 | 590 | 660 | 652 | 677 | 697 | 625 | 680 | 652 | 658 | 636 |
| 6 | 125 | 592 | 790 | 987 | 1082 | 1076 | 957 | 1069 | 1057 | 1098 | 1130 | 1013 | 1103 | 1057 | 1066 | 1030 |
| 7 | 90 | 398 | 531 | 664 | 513 | 511 | 454 | 507 | 502 | 521 | 536 | 481 | 523 | 502 | 506 | 489 |
| 7 | 100 | 506 | 675 | 844 | 721 | 717 | 638 | 713 | 704 | 731 | 753 | 675 | 735 | 704 | 711 | 686 |
| 7 | 110 | 638 | 851 | 1064 | 1004 | 999 | 888 | 992 | 981 | 1018 | 1048 | 940 | 1023 | 981 | 990 | 956 |
| 7 | 125 | 887 | 1182 | 1478 | 1619 | 1611 | 1432 | 1600 | 1582 | 1642 | 1691 | 1516 | 1650 | 1582 | 1596 | 1541 |
| 8 | 90 | 532 | 709 | 886 | 685 | 682 | 606 | 678 | 670 | 695 | 716 | 642 | 698 | 670 | 676 | 653 |
| 8 | 100 | 675 | 900 | 1125 | 961 | 956 | 850 | 950 | 939 | 975 | 1004 | 900 | 979 | 939 | 947 | 915 |
| 8 | 110 | 849 | 1132 | 1415 | 1335 | 1329 | 1181 | 1320 | 1305 | 1355 | 1395 | 1250 | 1361 | 1305 | 1316 | 1271 |
| 8 | 125 | 1183 | 1577 | 1971 | 2160 | 2149 | 1910 | 2135 | 2110 | 2191 | 2256 | 2022 | 2201 | 2110 | 2129 | 2056 |

¹ Production rates are based on a consensus of replies to a user survey.

Thick Paint, Heavy Millscale or Heavy Pitted Rust

Soft Coating

Low Profile Range

SSPC-SP 6

Tables 4231

PC

| Operating Conditions | | Production Rate ft ² /hr of Blasting ¹ | | | | | | | | | | | | | | |
|----------------------|----------------|--|--------|------|-----------------------------|------|--------|------|--------------------------------|------------|--------|--------|--------------|---------|-------|------|
| | | Typical Mineral Abrasive | | | Refinery & By-Product Grits | | | | Natural or Mined Grits & Sands | | | | Manufactured | | | |
| Nozzle Size | Pressure (psi) | -25% | Median | +25% | Copper | Coal | Nickel | Iron | Olivine | Staurolite | Garnet | Silica | Zircon | Alumina | Glass | |
| 6 | 90 | 177 | 236 | 295 | 228 | 227 | 202 | 226 | 223 | 231 | 238 | 214 | 232 | 223 | 225 | 217 |
| 6 | 100 | 225 | 300 | 375 | 320 | 319 | 283 | 317 | 313 | 325 | 335 | 300 | 326 | 313 | 316 | 305 |
| 6 | 110 | 283 | 377 | 471 | 445 | 442 | 393 | 440 | 435 | 451 | 464 | 416 | 453 | 435 | 438 | 423 |
| 6 | 125 | 395 | 527 | 659 | 722 | 718 | 638 | 713 | 705 | 732 | 754 | 676 | 735 | 705 | 711 | 687 |
| 7 | 90 | 266 | 354 | 443 | 342 | 341 | 303 | 338 | 334 | 347 | 357 | 320 | 349 | 334 | 337 | 326 |
| 7 | 100 | 338 | 450 | 563 | 481 | 478 | 425 | 475 | 470 | 488 | 502 | 450 | 490 | 470 | 474 | 458 |
| 7 | 110 | 425 | 567 | 709 | 669 | 665 | 592 | 661 | 654 | 679 | 699 | 626 | 682 | 654 | 659 | 637 |
| 7 | 125 | 591 | 788 | 985 | 1079 | 1074 | 954 | 1067 | 1054 | 1095 | 1127 | 1011 | 1100 | 1054 | 1064 | 1027 |
| 8 | 90 | 355 | 473 | 591 | 457 | 455 | 404 | 452 | 447 | 464 | 478 | 428 | 466 | 447 | 451 | 435 |
| 8 | 100 | 450 | 600 | 750 | 641 | 638 | 567 | 633 | 626 | 650 | 669 | 600 | 653 | 626 | 632 | 610 |
| 8 | 110 | 566 | 755 | 944 | 891 | 886 | 788 | 880 | 870 | 903 | 930 | 834 | 908 | 870 | 878 | 848 |
| 8 | 125 | 788 | 1051 | 1314 | 1439 | 1432 | 1273 | 1423 | 1406 | 1460 | 1503 | 1348 | 1467 | 1406 | 1419 | 1370 |

¹ Production rates are based on a consensus of replies to a user survey.

Thick Paint, Heavy Millscale or Heavy Pitted Rust

Soft Coating

Medium Profile Range

SSPC-SP 6

Tables 4232

PC

| Operating Conditions | | Production Rate ft ² /hr of Blasting ¹ | | | | | | | | | | | | | | |
|----------------------|----------------|--|--------|------|-----------------------------|------|--------|------|--------------------------------|------------|--------|--------|--------------|---------|-------|-----|
| | | Typical Mineral Abrasive | | | Refinery & By-Product Grits | | | | Natural or Mined Grits & Sands | | | | Manufactured | | | |
| Nozzle Size | Pressure (psi) | -25% | Median | +25% | Copper | Coal | Nickel | Iron | Olivine | Staurolite | Garnet | Silica | Zircon | Alumina | Glass | |
| 6 | 90 | 89 | 118 | 148 | 114 | 114 | 101 | 113 | 111 | 116 | 119 | 107 | 116 | 111 | 112 | 109 |
| 6 | 100 | 113 | 150 | 188 | 160 | 159 | 142 | 158 | 157 | 163 | 167 | 150 | 163 | 157 | 158 | 153 |
| 6 | 110 | 142 | 189 | 236 | 223 | 222 | 197 | 220 | 218 | 226 | 233 | 209 | 227 | 218 | 220 | 212 |
| 6 | 125 | 197 | 263 | 329 | 360 | 358 | 319 | 356 | 352 | 365 | 376 | 337 | 367 | 352 | 355 | 343 |
| 7 | 90 | 133 | 177 | 221 | 171 | 170 | 151 | 169 | 167 | 174 | 179 | 160 | 174 | 167 | 169 | 163 |
| 7 | 100 | 169 | 225 | 281 | 240 | 239 | 213 | 238 | 235 | 244 | 251 | 225 | 245 | 235 | 237 | 229 |
| 7 | 110 | 213 | 284 | 355 | 335 | 333 | 296 | 331 | 327 | 340 | 350 | 314 | 341 | 327 | 330 | 319 |
| 7 | 125 | 296 | 394 | 493 | 540 | 537 | 477 | 533 | 527 | 547 | 564 | 505 | 550 | 527 | 532 | 514 |
| 8 | 90 | 177 | 236 | 295 | 228 | 227 | 202 | 226 | 223 | 231 | 238 | 214 | 232 | 223 | 225 | 217 |
| 8 | 100 | 225 | 300 | 375 | 320 | 319 | 283 | 317 | 313 | 325 | 335 | 300 | 326 | 313 | 316 | 305 |
| 8 | 110 | 283 | 377 | 471 | 445 | 442 | 393 | 440 | 435 | 451 | 464 | 416 | 453 | 435 | 438 | 423 |
| 8 | 125 | 395 | 526 | 658 | 720 | 717 | 637 | 712 | 704 | 731 | 752 | 675 | 734 | 704 | 710 | 686 |

¹ Production rates are based on a consensus of replies to a user survey.

Thick Paint, Heavy Millscale or Heavy Pitted Rust

Soft Coating

High Profile Range

SSPC-SP 6

Tables 4233

PC

| Operating Conditions | | Production Rate ft ² /hr of Blasting ¹ | | | | | | | | | | | | | | |
|----------------------|----------------|--|--------|------|-----------------------------|------|--------|------|--------------------------------|------------|--------|--------|--------------|---------|-------|------|
| | | Typical Mineral Abrasive | | | Refinery & By-Product Grits | | | | Natural or Mined Grits & Sands | | | | Manufactured | | | |
| Nozzle Size | Pressure (psi) | -25% | Median | +25% | Copper | Coal | Nickel | Iron | Olivine | Staurolite | Garnet | Silica | Zircon | Alumina | Glass | |
| 6 | 90 | 591 | 788 | 985 | 762 | 758 | 674 | 753 | 744 | 773 | 796 | 713 | 776 | 744 | 751 | 725 |
| 7 | 90 | 886 | 1181 | 1476 | 1142 | 1136 | 1010 | 1129 | 1116 | 1158 | 1193 | 1069 | 1163 | 1116 | 1125 | 1087 |
| 8 | 90 | 1181 | 1574 | 1968 | 1522 | 1514 | 1346 | 1504 | 1487 | 1544 | 1589 | 1425 | 1551 | 1487 | 1500 | 1449 |
| 6 | 100 | 750 | 1000 | 1250 | 1068 | 1063 | 944 | 1056 | 1043 | 1083 | 1115 | 1000 | 1088 | 1043 | 1053 | 1017 |
| 7 | 100 | 1125 | 1500 | 1875 | 1602 | 1594 | 1417 | 1583 | 1565 | 1625 | 1673 | 1500 | 1632 | 1565 | 1579 | 1525 |
| 8 | 100 | 1500 | 2000 | 2500 | 2136 | 2125 | 1889 | 2111 | 2087 | 2167 | 2231 | 2000 | 2176 | 2087 | 2105 | 2033 |
| 6 | 110 | 944 | 1258 | 1573 | 1484 | 1476 | 1312 | 1467 | 1450 | 1505 | 1550 | 1390 | 1512 | 1450 | 1463 | 1413 |
| 7 | 110 | 1416 | 1888 | 2360 | 2227 | 2216 | 1970 | 2201 | 2176 | 2259 | 2326 | 2086 | 2270 | 2176 | 2195 | 2120 |
| 8 | 110 | 1889 | 2518 | 3148 | 2970 | 2955 | 2627 | 2936 | 2902 | 3013 | 3102 | 2781 | 3027 | 2902 | 2928 | 2828 |
| 6 | 125 | 1315 | 1753 | 2191 | 2401 | 2389 | 2123 | 2373 | 2346 | 2435 | 2507 | 2248 | 2446 | 2346 | 2366 | 2286 |
| 7 | 125 | 1972 | 2629 | 3286 | 3601 | 3582 | 3184 | 3559 | 3518 | 3652 | 3761 | 3372 | 3669 | 3518 | 3549 | 3428 |
| 8 | 125 | 2630 | 3507 | 4384 | 4803 | 4779 | 4248 | 4747 | 4693 | 4872 | 5016 | 4497 | 4894 | 4693 | 4734 | 4572 |

¹ Production rates are based on a consensus of replies to a user survey.

Thick Paint, Heavy Millscale or Heavy Pitted Rust

Soft Coating

Low Profile Range

SSPC-SP 7

Tables 4241

PC

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